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U.S. Army Environmental Center

FINAL

BIOTA SAMPLING WOODBRIDGE RESEARCH FACILITY

WOODBRIDGE RESEARCH FACILITY, VIRGINIA

AUGUST 1995

Prepared For:

U.S. Army Environmental Center
Aberdeen Proving Ground, Maryland 21010

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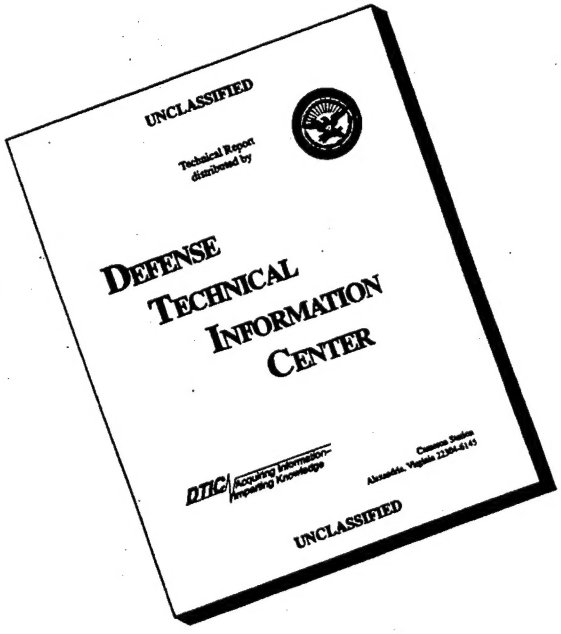

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TABLE OF CONTENTS

Section **Page No.**

1.0 Introduction 1-1

2.0 Live Clam Box Sampling 2-1
2.1 Purpose and Description of Sampling 2-1
2.2 Location Descriptions 2-1
2.3 Sample Collection, Processing, and Storage Procedures 2-2

3.0 Fish Collection 3-1
3.1 Purpose and Description of Fish Collection 3-1
3.2 Location Descriptions 3-1
3.3 Sample Collection, Processing, and Storage Procedures 3-1

Appendix A Field Notes
Appendix B Photo Log
Appendix C Fishing Permit
Appendix D Chain-of-Custody Forms

LIST OF FIGURES

Page No.

Figure 1-1 Location Map, Woodbridge Research Facility, Woodbridge, Virginia 1-2
Figure 1-2 Woodbridge Research Facility Map 1-3
Figure 1-3 Biota Sampling Locations 1-4

LIST OF TABLES

Page No.

Table 2-1 Summary of Clam Sampling 2-3
Table 2-2 Water Quality Data 2-5

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SECTION 1.0
INTRODUCTION

The U.S. Army Environmental Center (USAEC), Aberdeen Proving Ground, Maryland, directed EARTH TECH to complete a biota sampling at the Woodbridge Research Facility (WRF) installation. This sampling was conducted as part of the U.S. Army Installation Restoration Program (IRP) with all specific activities and project responsibilities as defined in contract number DAAA15-91-D-0009, Delivery Order 0014. Project-specific administration and technical supervision of this delivery order are provided by USAEC-Base Closure Division.

A Site Inspection (SI) was conducted to characterize and evaluate potentially contaminated sites at WRF. The SI identified several data gaps which included the lack of information on potential human health risks from the consumption of fish and on the potential for contaminants found at the study areas to impact aquatic life.

EARTH TECH was contracted to collect, store, and deliver biota samples from the waters on and surrounding WRF. The samples will be analyzed and included in a risk assessment under a separate contract. Guidance documents from the Virginia Department of Environmental Quality (VDEQ) were followed to conduct this sampling (VDEQ, 1994).

WRF occupies approximately 579 acres of land in the town of Woodbridge in the easternmost portion of Prince William County, Virginia. The facility is located 22 miles southwest of Washington, D.C., as shown in Figure 1-1. Occoquan and Belmont Bays border WRF on the south and east respectively. Marumsco Creek, which is part of Marumsco National Wildlife Refuge, bounds the facility on the west side. Other surface features on the WRF property include a drainage ditch and a pond. The entrance to WRF is located on Dawson Beach Road, east of U.S. Route 1 in Woodbridge. Residential, commercial, and industrial areas are located north of the WRF. A facility location map is provided as Figure 1-2.

The biota sampling included fish sampling at 3 locations and live clam box sampling at 8 locations on and surrounding WRF (Figure 1-3). The fish samples were collected with nets, seines, and electro-fishing gear. The fish samples were collected from 8 November 1994 through 10 November 1994. The live clam box sampling was conducted from 10 October 1994 to 6 December 1994. All samples have been stored since the time of collection at -20°C.

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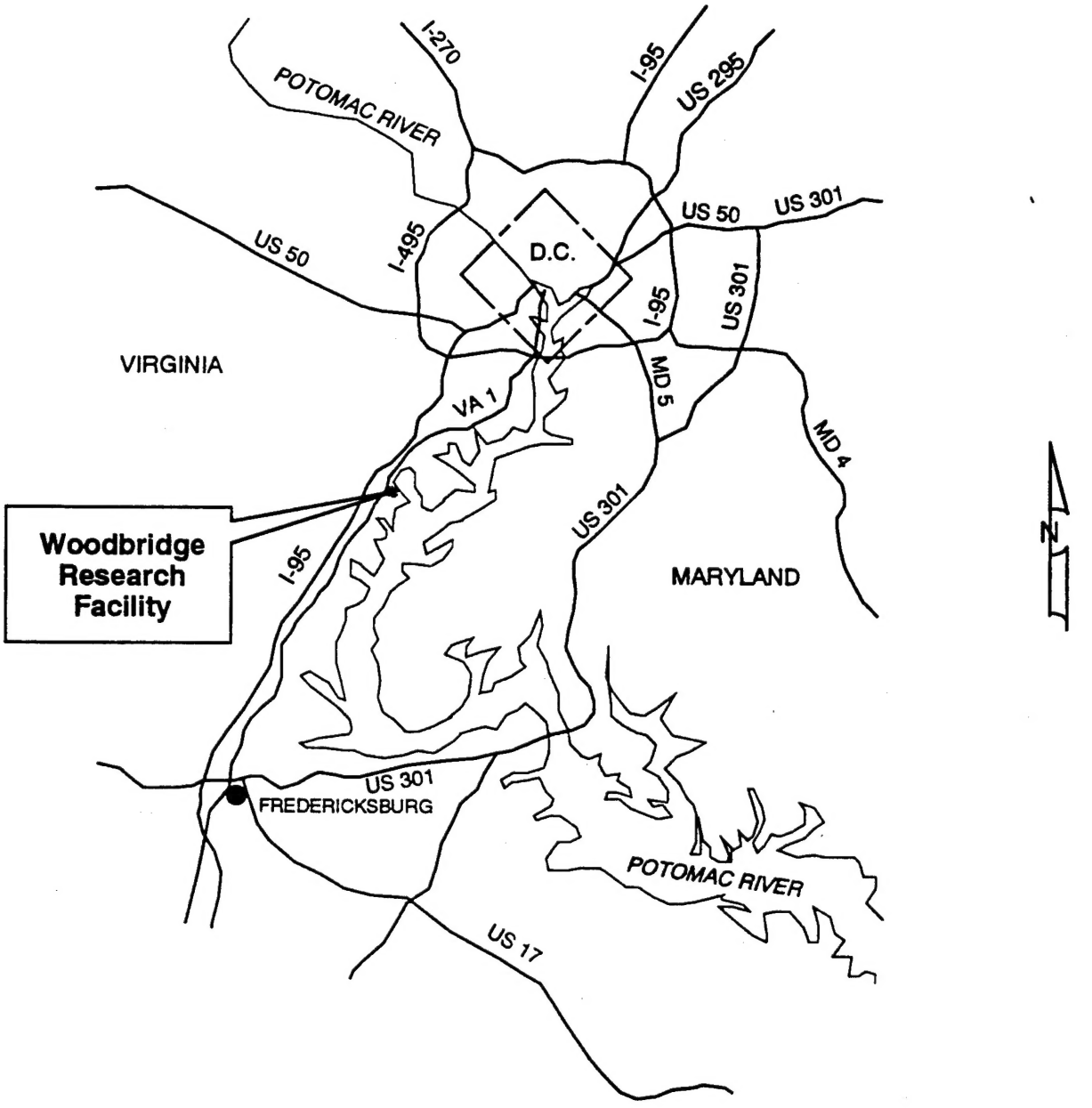

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FIGURE 1-1

LOCATION MAP
WOODBRIDGE RESEARCH FACILITY
WOODBRIDGE, VIRGINIA

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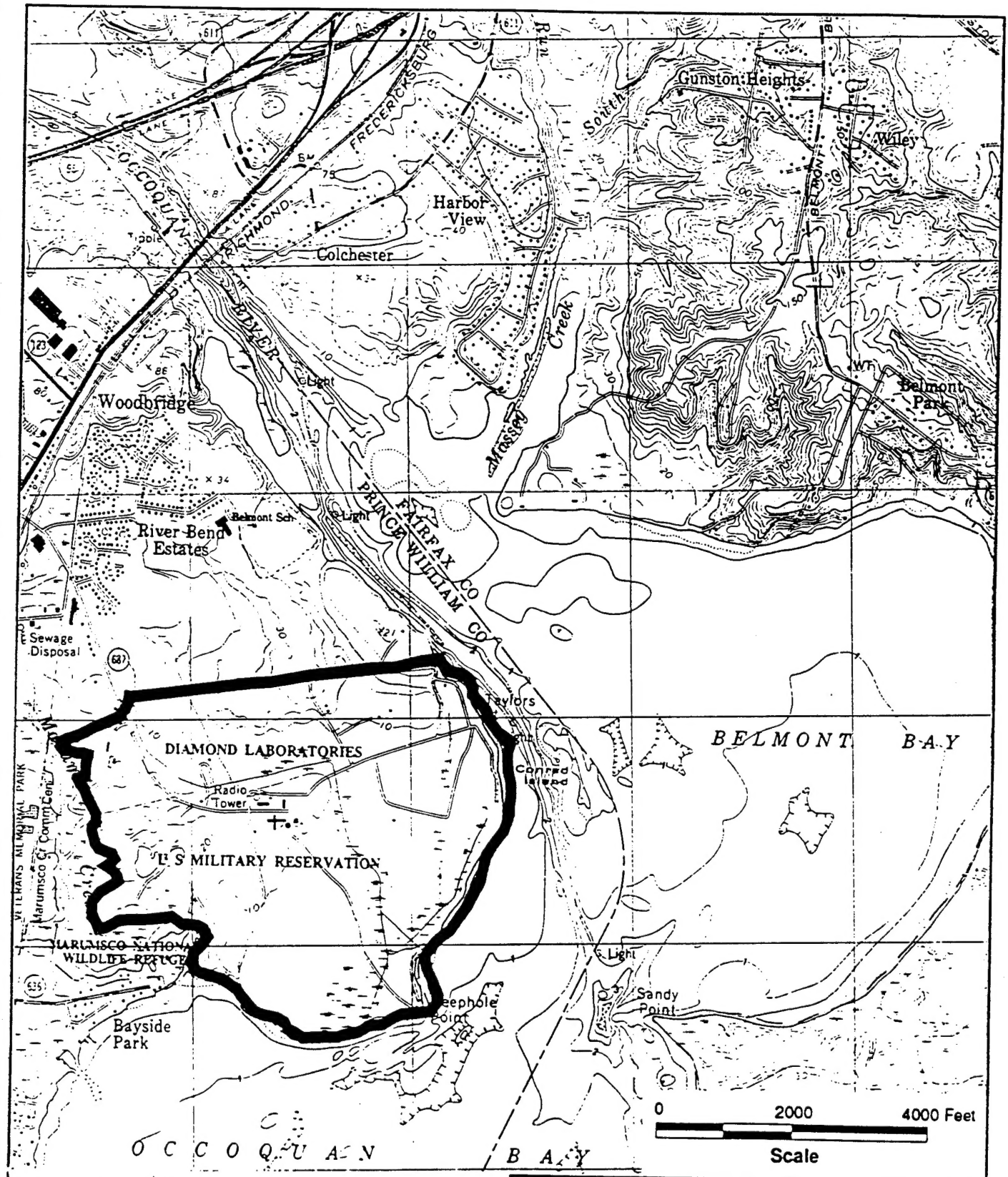

FIGURE 1-2

WOODBRIDGE RESEARCH FACILITY LOCATION MAP

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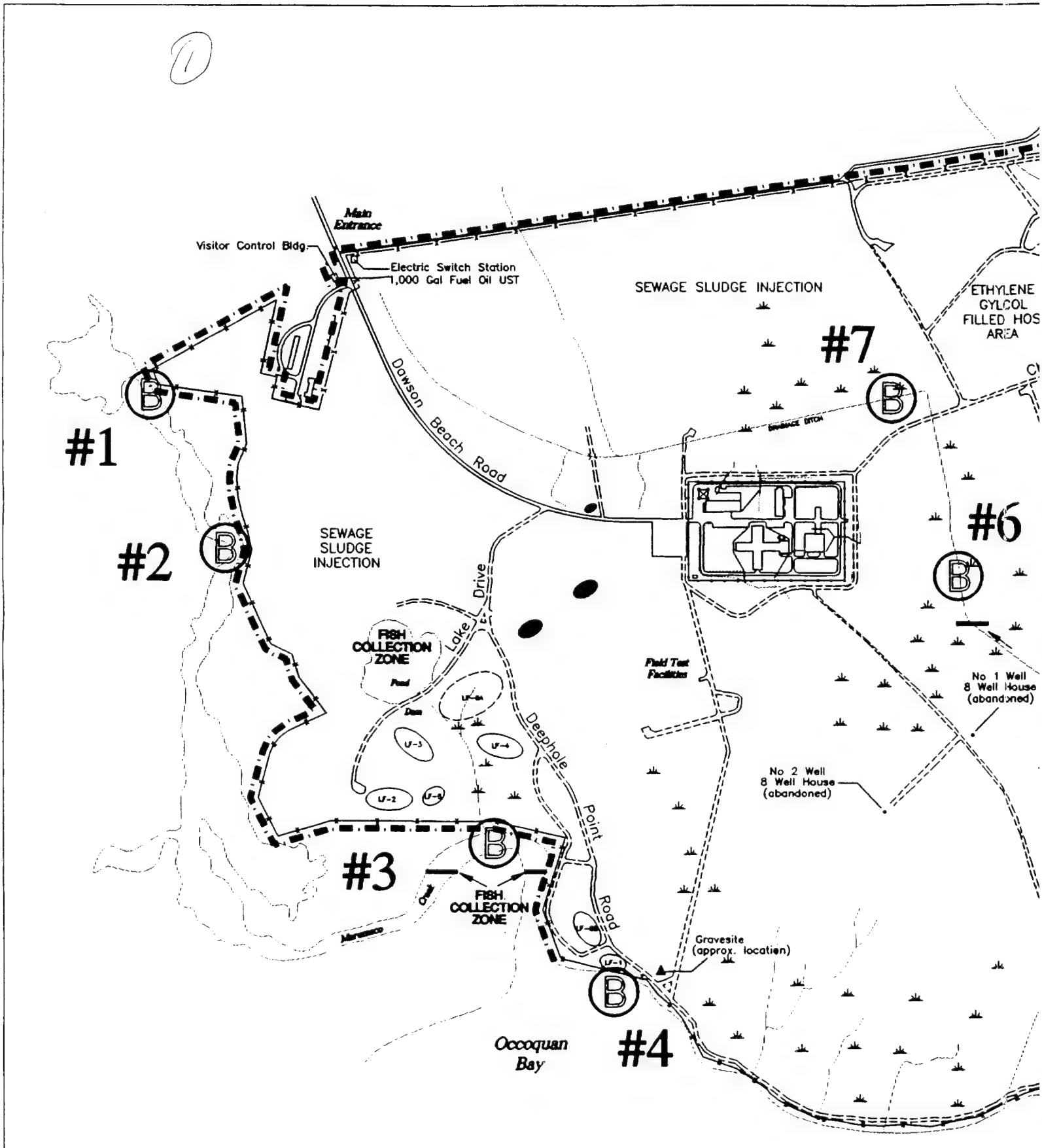

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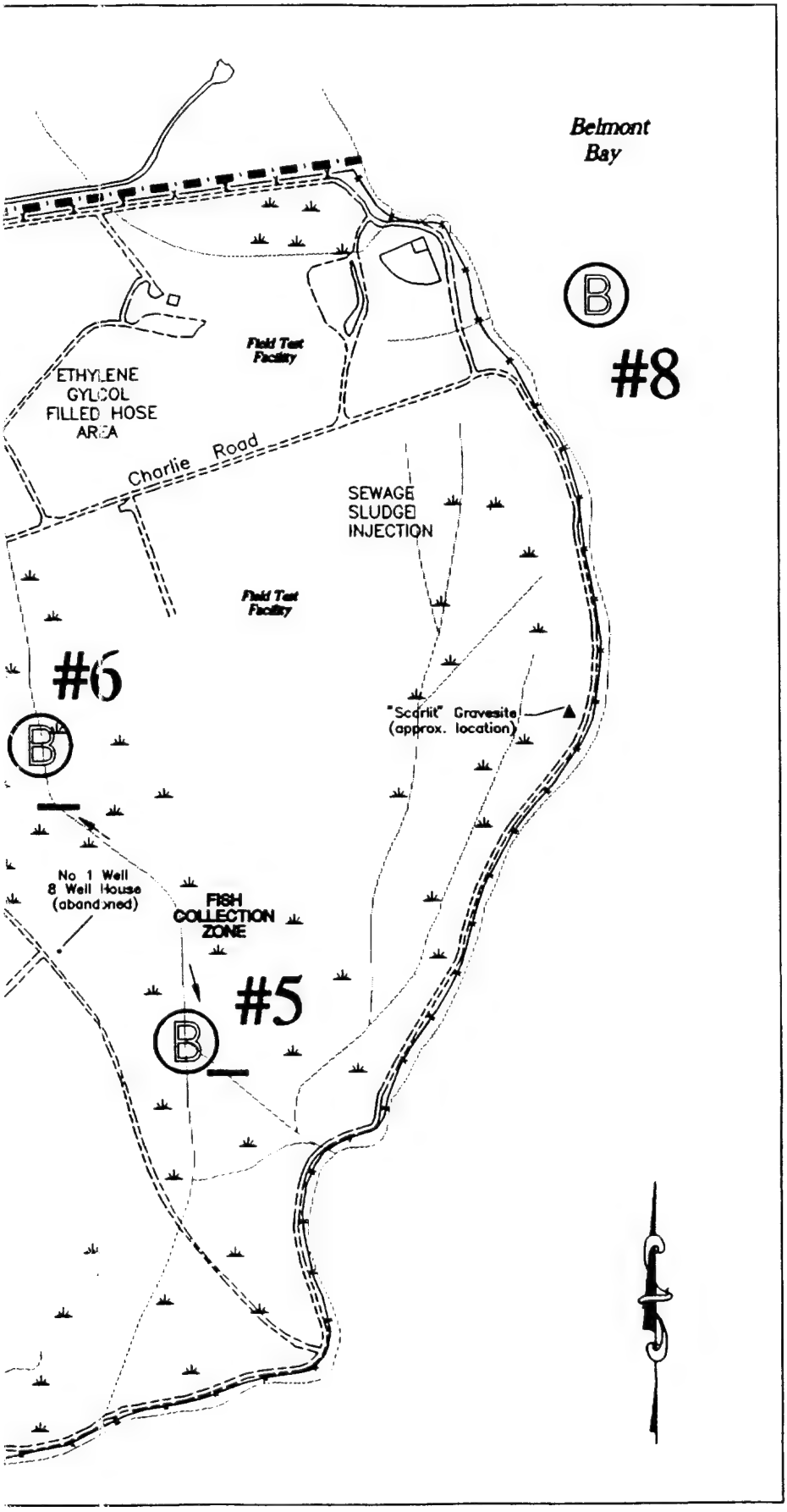

Figure 1-3

Biota Sampling Locations
Woodbridge Research Facility
Woodbridge, Virginia

EARTHTEC
Alexandria, Virginia

(3)

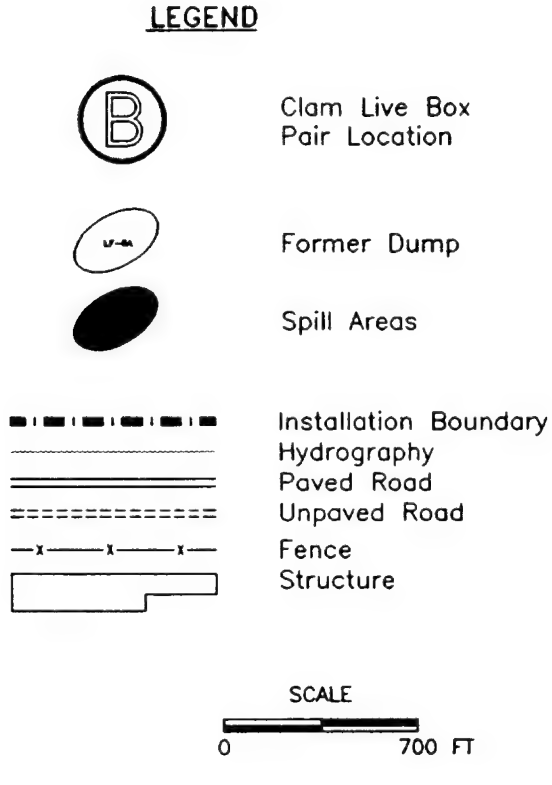

Figure 1-3

Biota Sampling Locations
Woodbridge Research Facility
Woodbridge, Virginia

EARTH TECH

Alexandria, Virginia

The methods of collection, processing, and storage for each of these activities will be described in this report. Location descriptions will also be provided. Field notes and a photo log are provided in Appendices A and B, respectively.

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SECTION 2.0
LIVE CLAM BOX SAMPLING

This section provides the purpose, location descriptions, and sampling procedures for the live clam boxes.

2.1 PURPOSE AND DESCRIPTION OF SAMPLING

Live boxes containing wedge clams (*Rangia cunneata*) were deployed in 8 locations on and surrounding WRF. Two live boxes were placed in each location on 10 October 1994. Boxes were sampled every two weeks for 8 weeks. Each live box contained 250 clams. The clams were obtained from Dr. Eugene Maurakis, Director of St. Paul's College Aquaculture Program.

The purpose of the sampling to provide biota tissue for analysis of contaminants of concern. The locations were selected to assess background bioconcentration potentials and bioconcentration potentials in areas potentially impacted by WRF areas requiring environmental evaluation (AREEs). Live box tissue contaminant data can be used, in conjunction with indigenous tissue sample contaminant data, in the risk assessment analyses to determine the human health risk associated with the consumption of fish and shellfish.

2.2 LOCATION DESCRIPTIONS

The 16 live boxes were deployed in 8 locations. These locations are listed below and are shown on Figure 1-3.

1. Marumsco Creek, upstream of WRF
2. Marumsco Creek, adjacent to the western sewage sludge injection area
3. Marumsco Creek near Former Dump 2
4. Occoquan Bay near Former Dump 1
5. Drainage Ditch just upstream of the Occoquan Bay
6. Drainage Ditch downstream of the Main Compound in the area known as the beaver pond
7. Drainage Ditch upstream of the Main Compound
8. Belmont Bay, 150 feet from the shoreline.

Each of the locations is shown in Appendix B, the photo log.

2.3 Sample Collection, Processing, and Storage Procedures

Live boxes were sampled every two weeks. Prior to deployment, 40 clams were collected as a control sample. At each sample collection event, the dead clams were removed and shucked. The tissue was wrapped in aluminum foil, dull side toward the sample, placed in heavy duty freezer bags, and frozen at -20°C. Twenty live clams were collected from each box, if practical. In some cases, only 10 live clams were collected due to high mortality rates. Table 2-1 provides the sample collection summary from each live box at all 8 locations. Live clams were wrapped with the shell in aluminum foil, dull side toward the sample, placed in heavy duty freezer bags, and frozen at -20°C. The clams from each box at a location per sampling event were composited into one sample. The samples were labeled with the date, sample location, and status of the clams (live or dead). Aquatic Systems Corporation (ASC) personnel assisted in sample preparation and recovery. ASC personnel transported the preserved samples to the ASC laboratory for temporary storage. The samples were delivered to ESE via Federal Express in May 1995. A copy of the Federal Express airbill along with copies of the chain-of-custody forms which accompanied the biota samples is contained in Appendix D.

The following parameters were determined in the field at each location during each sampling event.

- Dissolved Oxygen
- Temperature
- pH
- Conductivity
- Hardness

These parameters are reported in Table 2-2.

TABLE 2-1
SUMMARY OF CLAM SAMPLING

Location	Live Box	Initial Count	Sampling Period: October 24 - October 25				Sampling Period: November 7			
			Number Dead	Number Live	Number Sampled	Number Remaining	Number Dead	Number Live	Number Sampled	Number Remaining
1	A	256	170	86	10	76	55	21	10	11
1	B	242	169	73	10	63	29	34	10	24
2	A	253	198	55	10	45	1	44	10	34
2	B	250	6	244	20	224	4	220	20	200
3	A	260	22	238	20	218	4	214	20	194
3	B	273	35	238	20	218	2	216	20	196
4	A	246	33	213	20	193	1	192	20	172
4	B	248	37	211	20	191	3	188	20	168
5	A	247	180	67	10	57	3	54	10	44
5	B	247	62	185	20	165	4	161	20	141
6	A	250	226	24	10	14	12	2[1]	0	0
6	B	250	191	59	10	49	23	26[1]	10	18
7	A	250	250	0	0	0	0	0	0	0
7	B	250	250	0	0	0	0	0	0	0
8	A	246	84	162	20	142	12	130	20	110
8	B	248	119	129	20	109	11	98	20	78

TABLE 2-1
SUMMARY OF CLAM SAMPLING

Continued

Location	Live Box	Number Remaining[3]	Sampling Period: November 21 - November 22				Sampling Period: December 5 - December 6			
			Number Dead	Number Live	Number Sampled	Number Remaining	Number Dead	Number Live	Number Sampled	Number Remaining[4]
1	A	11	9	2	2[2]	0	0	0	0	0
1	B	24	14	10	10[2]	0	0	0	0	0
2	A	34	4	30	10	20	3	17	17	0
2	B	200	20	180	20	160	9	151	20	131
3	A	194	1	193	20	173	0	173	20	153
3	B	196	1	195	20	175	1	174	20	154
4	A	172	1	171	20	151	0	151	20	131
4	B	168	1	167	20	147	1	146	20	126
5	A	44	1	43	20	23	2	21	21	0
5	B	141	2	139	20	119	6	113	20	93
6	A	0	0	0	0	0	0	0	0	0
6	B	18	15	3	3	0	0	0	0	0
7	A	0	0	0	0	0	0	0	0	0
7	B	0	0	0	0	0	0	0	0	0
8	A	110	0	110	20	90	0	90	20	70
8	B	78	1	77	20	57	1	56	20	36

(1) The 2 live clams remaining in basket "A" at Location 6 after the dead clams were collected during the second sampling period (November 7) were added to basket "B" due to the 2 remaining live clams in basket "A" not having enough tissue for a sample.

(2) The live clams collected during the third sampling period (November 21 - November 22) at Location 1 from baskets "A" and "B" were combined into one sample due to not enough tissue for 2 separate samples.

(3) Number remaining refers to number remaining after second sampling period (November 7).

(4) Clams remaining after fourth sampling period (December 5 - December 6) were considered waste.

TABLE 2-2
WATER QUALITY DATA

October 9, 1994

Location	Temperature (°C)	pH	Cond	D.O.	Hardness	Time
1	17.8	5.5	240	6.4	60	1230
2	20.7	6.6	270	9.4	100	1320
3	21.5	7.8	270	11.1	80	1440
4	20.9	7.5	300	10.8	100	1415
5	23.0	6.1	260	8.6	100	1750
6	19.9	5l7	130	8.1	40	1650
7	19.9	5.5	130	5.2	20	1625
8	20.6	7.7	250	9.6	80	1840
Clam Holding Area	19.7	7.5	260	10.5	100	1100

October 24-25, 1994

Location	Temperature (°C)	pH	Cond	D.O.	Hardness	Time
1	16.8	6.3	160	4.1	80	1535
2	18.5	6.5	160	7.4	60	1450
3	18.5	6.9	210	10.6	100	1420
4	18.0	7.6	220	12.2	100	1400
5	13.0	5.7	240	5.6	100	0900
6	14.5	6.0	130	6.7	60	1035
7	16.5	5.3	120	1.0	40	0940
8	18.0	7.5	240	12.6	120	1249

November 7-8, 1994

Location	Temperature (°C)	pH	Cond	D.O.	Hardness	Time
1	14.0	6.0	220	6.5	80	1430
2	16.0	6.0	240	7.1	60	1400
3	16.0	6.4	380	9.4	120	1300
4	16.0	7.5	430	10.5	120	1225
5	17.0	6.3	320	11.3	100	1630
6	17.0	6.1	180	4.1	40	1535
7	8.0	5.1	140	2.8	40	0830
8	15.0	6.8	340	11.7	120	1130
Pond	14.0	4.7	50	9.4	20	0845

TABLE 2-2
WATER QUALITY DATA

November 21-22, 1994

Location	Temperature (°C)	pH	Cond	D.O.	Hardness	Time
1	14.0	6.2	120	6.9	80	1545
2	14.0	6.1	80	6.8	60	1620
3	13.0	6.1	140	8.8	100	1500
4	13.0	6.6	200	10.6	140	1430
5	10.0	6.3	520	8.3	120	0910
6	11.0	6.1	380	8.4	100	0930
7	9.5	5.3	180	3.1	60	0920
8	12.0	6.8	500	10.3	120	0830

December 5-6, 1994

Location	Temperature (°C)	pH	Cond	D.O.	Hardness	Time
1	15.0	6.0	200	7.2	100	1615
2	14.0	5.75	180	6.5	60	1600
3	14.0	5.6	290	7.9	80	1425
4	13.0	5.5	300	7.8	100	1410
5	10.5	6.5	940	8.5	240	0905
6	10.5	5.4	230	5.4	--	1520
7	14.0	5.1	140	7.5	--	1530
8	10.0	6.7	900	10.6	240	0830

SECTION 3.0
FISH COLLECTION

This section provides the purpose, location descriptions, and sampling procedures for the fish collection.

3.1 PURPOSE AND DESCRIPTION OF FISH COLLECTION

The objective of studying contaminant levels in indigenous fish tissues is to assess risk associated with the ingestion of contaminated tissues. Sampling of indigenous fish tissues provides data for determining a reasonable maximum exposure value for use in risk assessment algorithms.

Fish were collected from 3 locations on and surrounding WRF. The fish collection was conducted from 8 November 1994 through 10 November 1994. A fishing permit, Permit No. SCP94116, was obtained on 31 October 1994 (see Appendix D). Collection focused on bottom oriented fish, pelagic fish, and game fish. U.S. Environmental Protection Agency (USEPA) guidance on fish sampling and analysis recommends that the smallest fish in the sample be no less than 75 percent of the length of the largest fish in the sample. Samples that did not meet the size requirements were released.

3.2 LOCATION DESCRIPTIONS

Fish were collected from the lower portions of Marumsco Creek, the drainage ditch downstream from the Main Compound, and the pond. Locations are shown on Figure 1-3 and in Appendix B, the photo log.

3.3 SAMPLE COLLECTION, PROCESSING, AND STORAGE PROCEDURES

Samples were collected at all 3 locations over the three day period. The fish were collected using electro-fishing, gill netting, and seining. Five individuals per species were allowed per location. If individuals of a certain species were not large enough to yield 50 grams of fillet tissue, composite samples were allowed.

At the pond, 8 largemouth bass, 10 bluegill, 4 channel catfish, and 10 white perch were collected. Three of the largemouth bass were released due to size and number limitations.

Ten white perch, 10 bluegill, 1 black crappie, 2 common carp, and 7 yellow perch were collected from Marumsco Creek. None of the measured fish were released.

Three common carp, 10 bluegill, 10 black crappie, 10 american eel, and 8 large mouth bass were collected from the drainage ditch. Two of the large mouth bass and 1 american eel were released due to size and number limitations.

All the samples were measured and recorded in the field notes (Appendix A). All samples were wrapped whole in aluminum foil, dull side toward the sample, and placed in heavy duty freezer bags by species and location. The samples were labeled with species, sample number, location, and collection date. The samples were stored on ice during transport to the storage facility and then frozen at -20°C.

Samples were delivered to ESE in May 1995. ESE is responsible for processing and analyzing the samples.

APPENDIX A

FIELD NOTES

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A-1
AQUATIC SYSTEMS
FIELD NOTES

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10-8-94

WEATHER COND: CLEAR MID 70'S

0600 LEFT PITTSBURGH

1230 ARRIVED AT WOODBRIDGE FACILITY

SITE RECONNAISSANCE OF ALL SAMPLING LOCATIONS - CLEAR CUT BRUSH TO OBTAIN EASIER ACCESS.

1700 ARRIVED AT HOTEL ROOM

10-9-94

WEATHER COND: CLEAR, MID 70'S

0930 ARRIVED AT WOODBRIDGE FACILITY

1040 Dr. Mavrakis Arrived with Clams

1100 Distributing Clams into Baskets at Gate at End of Charlie Road

Water Chem

Temp: 19.7 °C
Cond: 260
pH: 7.5
Hardness: Clam Distributing Area
DO: 10.5 ppm

1130 Placed Wedge Mussels (250) into 16 Boxes.

Sampled 40 Clams for Control - ASC will maintain at Lab Frozen.

1200 Began Basket Deployment

Baskets were marked to identify Basket A from B at each location

Basket A has a cable tie in the center of the lid of Basket

Basket B - Has no cable tie

LOCATION 1 10-9-94

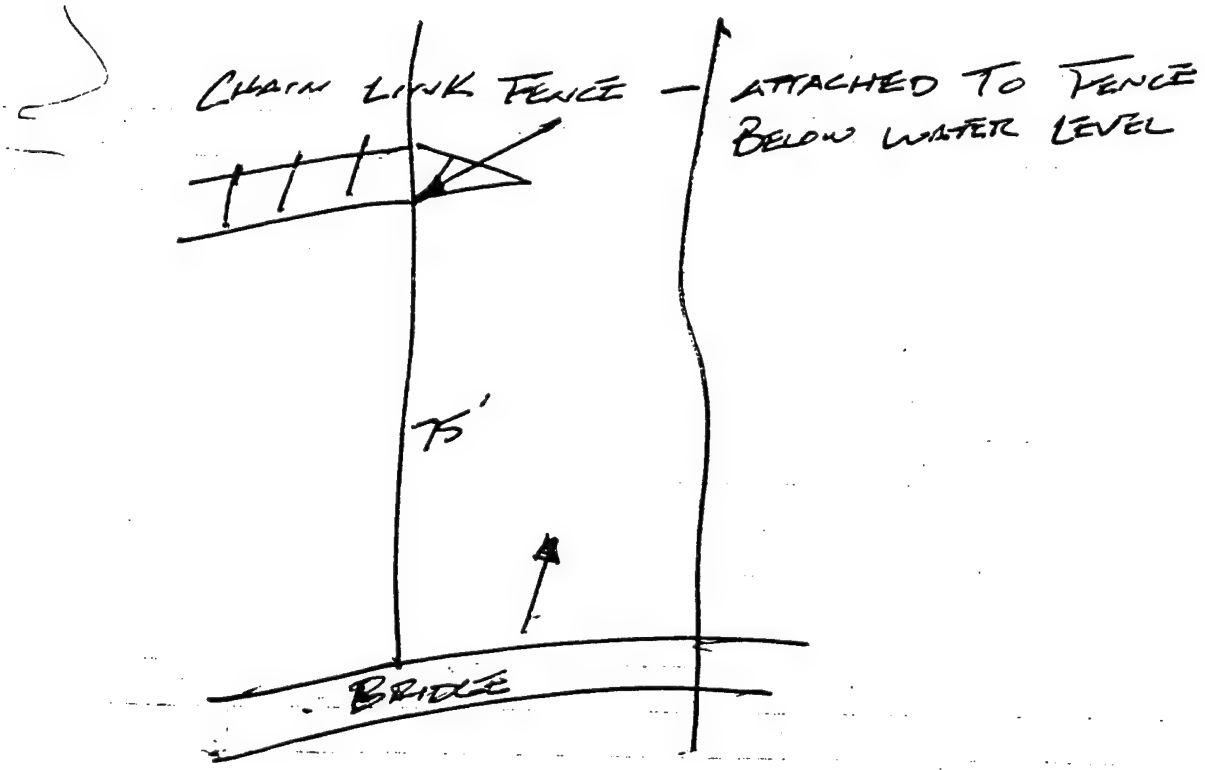
12:30 TIME

DEPTH - APPROX 5'

TEMP : 17.8
pH : 5.5
COND : 240
DO : #336 - 6.4 mg/L
HARDNESS : COLLECTED - MARKED LOC. 1

DESC: APPROX. 75' DNSTRM OF BRIDGE CROSSING ON LEFT BANK - WHERE U.S. ARMY PROPERTY FENCE ENTERS (CROSSES) RIVER.

BASKETS ARE ATTACHED TO CHAIN LINK FENCE



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 1 STA DATE: 10-24-94

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 70's °F

SAMPLING EVENT: WEEK 2 TIME: 1535

WATER QUALITY

TEMP: 16.8 pH: 6.3

COND: 160 D.O.: #6 4.1 ppm

HARDNESS: _____

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 10

DEAD: 170

REMAINDER

BASKET B - CLAMS REMOVED

ALIVE: 10

DEAD: 169

REMAINDER

A BASKET B BASKET

COMMENTS: 65K DEAD TISSUE. NO. 166 158

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STA 1 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 60'S °F

SAMPLING EVENT: WEEK 4 TIME: 1430

WATER QUALITY

TEMP: 14.0 pH: 6.0

COND: 220 D.O.: #15 6.5 ppm

HARDNESS: TAKEN

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 10

DEAD: 55

BASKET B - CLAMS REMOVED

ALIVE: 10

DEAD: 29

COMMENTS: GOOD

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 1 DATE: 11-21-94

WEATHER CONDITIONS: RAIN

SAMPLING EVENT: WEEK 6 TIME: 1545

WATER QUALITY

TEMP: 14.0 pH: 6.2

COND: 120 D.O.: #336 6.9 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 2

DEAD: 9

BASKET B - CLAMS REMOVED

ALIVE: 10

DEAD: 14

COMMENTS: COMBINED ALIVE CLAMS TO CONSTITUTE 1 SAMPLE - POOLED BASKETS - CLAMS WERE DEPLETED

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 1 DATE: 12-5-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 8 TIME: 1615

WATER QUALITY

TEMP: 15.0 pH: 6.0

COND: 200 D.O.: 20 (7.2 ppm)

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE:

DEAD:

BASKET B - CLAMS REMOVED

ALIVE:

DEAD:

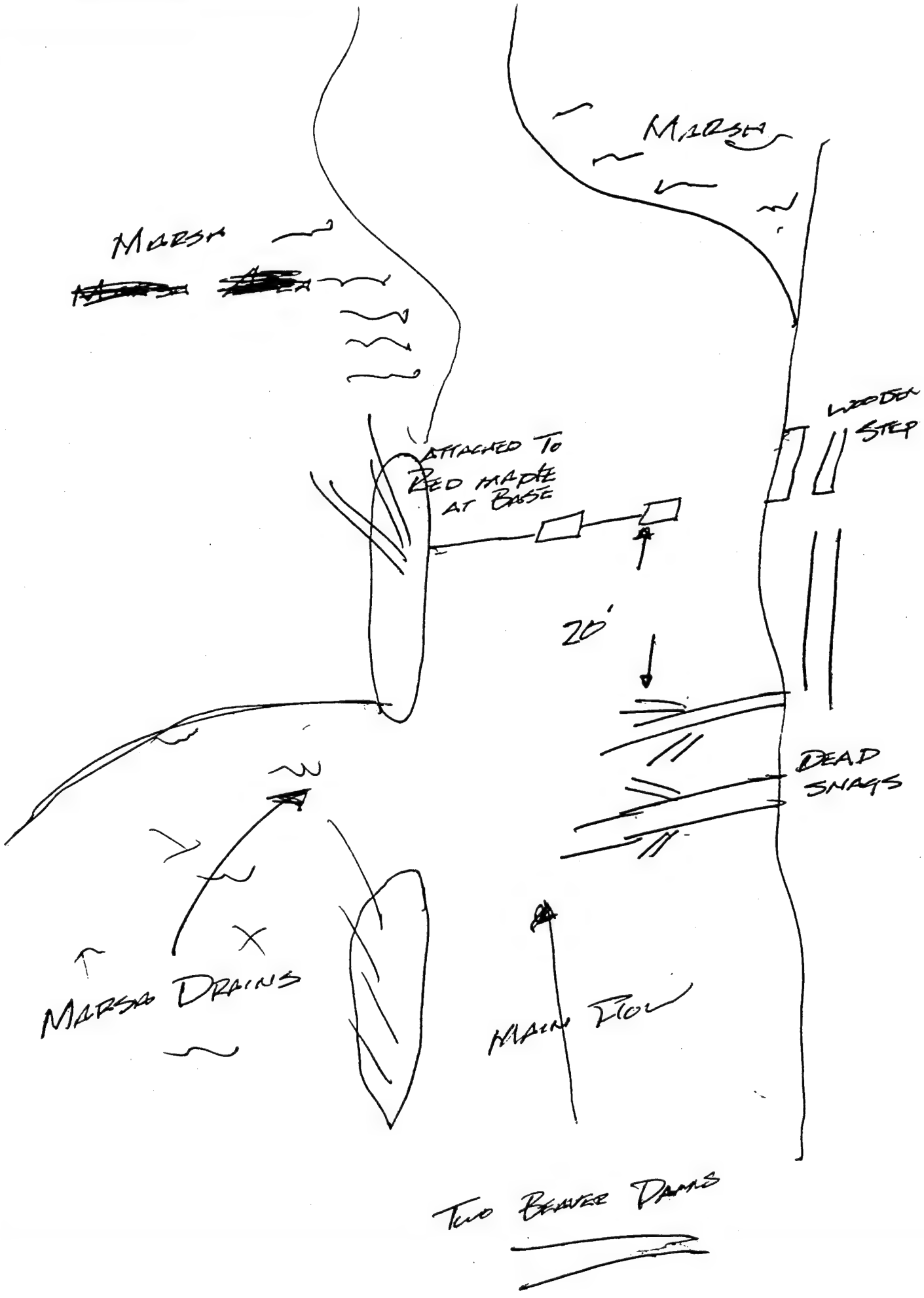
COMMENTS:

LOCATION 2 10-4-94

TIME : 1320

TEMP : 20.7
PH : 6.6
COND : 270
DO : #3 — 9.4 mg/L
HARDNESS : COLLECTED - MARKED LOC 2

DEER. ← DRAWING ON FOLLOWING PAGE


MARSH
MARSH
WOODEN STEP
ATTACHED TO RED MAPLE AT BASE
20'
DEAD SNAGS
MARSH DRAINS
MAIN FLOW
TWO BEAVER DAMS

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STA 2 DATE: OCT 24, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 70'S °F

SAMPLING EVENT: 2 WEEK TIME: 1450

WATER QUALITY

TEMP: 18.5 pH: 6.5

COND: 160 D.O.: #3 7.4 ppm

HARDNESS:

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 10	ALIVE: 20
DEAD: 198	DEAD: 6

	BASKET A	BASKET B
COMMENTS: GOOD		
DEAD TISSUE NO.	166	5

RETIED BASKETS TO DEAD TREE IN MIDDE OF STREAM.

LINES WERE CHEWED ? THROUGH BY SOME ANIMAL

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 2 DATE: 11-7-94

WEATHER CONDITIONS: SUNNY AND CLEAR IN THE 60'S °F

SAMPLING EVENT: WEEK 4 TIME: 1400

WATER QUALITY

TEMP: 16.0 pH: 6.0

COND: 240 D.O.: #336 7.1 PPM

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 10

DEAD: 1

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 4

COMMENTS: GSK

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 2 DATE: 11-21-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 6 TIME: 1620

WATER QUALITY

TEMP: 14.0 pH: 6.1

COND: 80 D.O.: #3 6.8 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 40

DEAD: 4

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 20

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 2 DATE: 12-5-94

WEATHER CONDITIONS: PARTLY CLOUDY MID 60'S

SAMPLING EVENT: WEEK 8 TIME: 1600

WATER QUALITY

TEMP: 14.0 pH: 5.75

COND: 180 D.O.: # 336 (6.5 PPM)

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 17

DEAD: 3

BASKET B - CLAMS REMOVED

ALIVE: 20 (151 TOTAL LIVE)

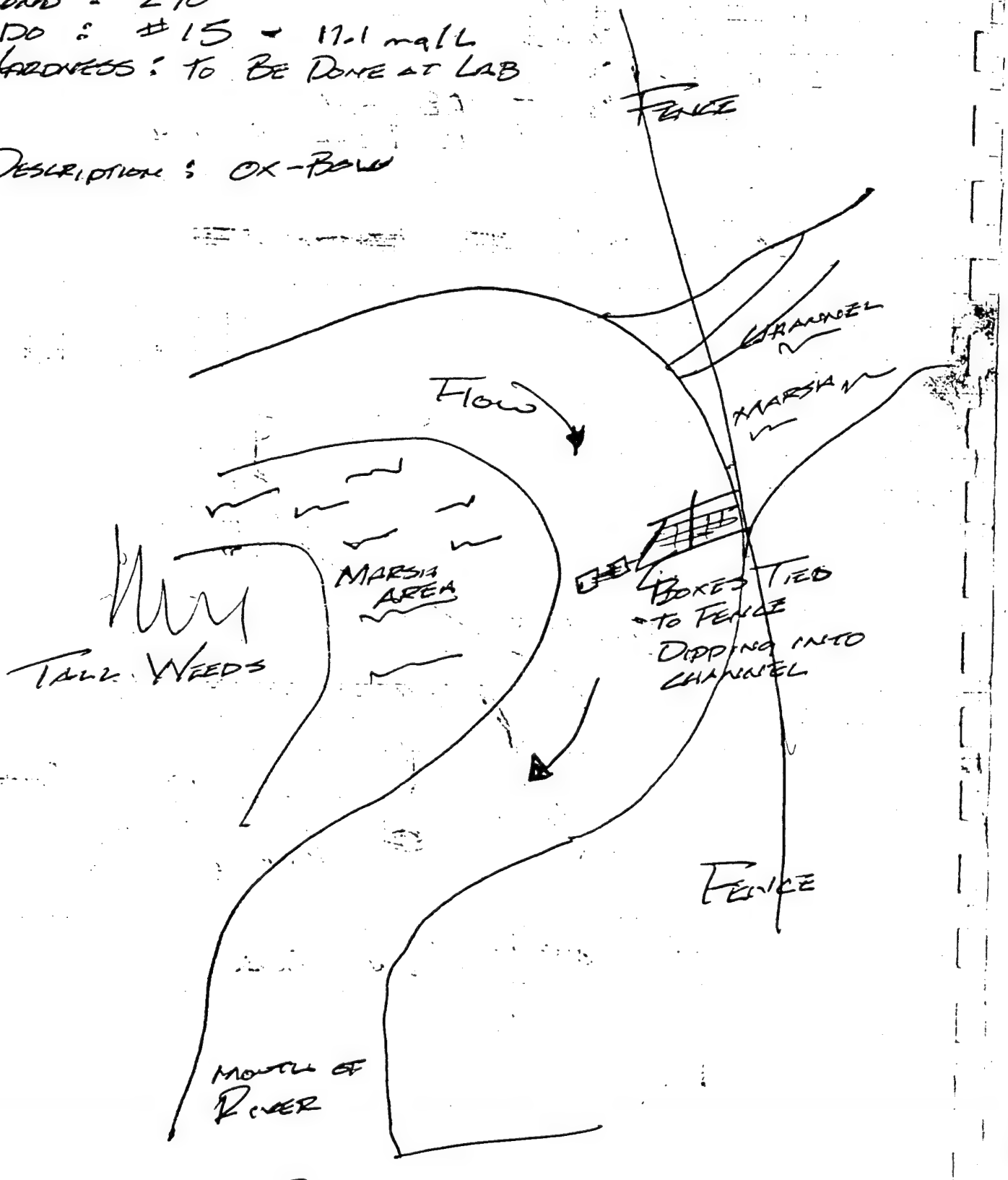
DEAD: 9

COMMENTS: BASKETS RETRIEVED

LOCATION 3 10-9-94

TIME: 1440
TEMP: 21.5
pH: 7.8
COND: 270
DO: #15 - 11.1 mg/L
HARDNESS: TO BE DONE AT LAB

DESCRIPTION: OX-BOW



RAV

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STN 3 DATE: OCT 24, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 70's °F

SAMPLING EVENT: 2 WEEK TIME: 1420

WATER QUALITY

TEMP: 18.5 pH: 6.9

COND: 210 D.O.: # 15 10.6 ppm

HARDNESS:

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 20	ALIVE: 20
DEAD: 22	DEAD: 35

COMMENTS: GJL

	BASKET A	BASKET B
DEAD TISSUE NO.	13	21

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STA 3 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 60'S °F

SAMPLING EVENT: WEEK 4 TIME: 1300

WATER QUALITY

TEMP: 16.0 pH: 6.4

COND: 380 D.O.: #3 9.4 ppm

HARDNESS: TAKEN #3

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20

DEAD: 4

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 2

COMMENTS: GTK

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: Loc 3 DATE: 11-21-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 6 TIME: 1500

WATER QUALITY

TEMP: 13.0 pH: 6.1

COND: 140 D.O.: #6 8.8 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20

DEAD: 1

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 1

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 3 DATE: 12-5-94

WEATHER CONDITIONS: Clear Llmn 60's

SAMPLING EVENT: WEEK 8 TIME: ~~1~~ 1425

WATER QUALITY

TEMP: 14.0° pH: 5.6

COND: 290 D.O.: ~~#~~6 (7.9 ppm)

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20 (173) TOTAL LIVE

DEAD: 0

BASKET B - CLAMS REMOVED

ALIVE: 20 (174) To Li

DEAD: 1

~~154 REMAINING~~

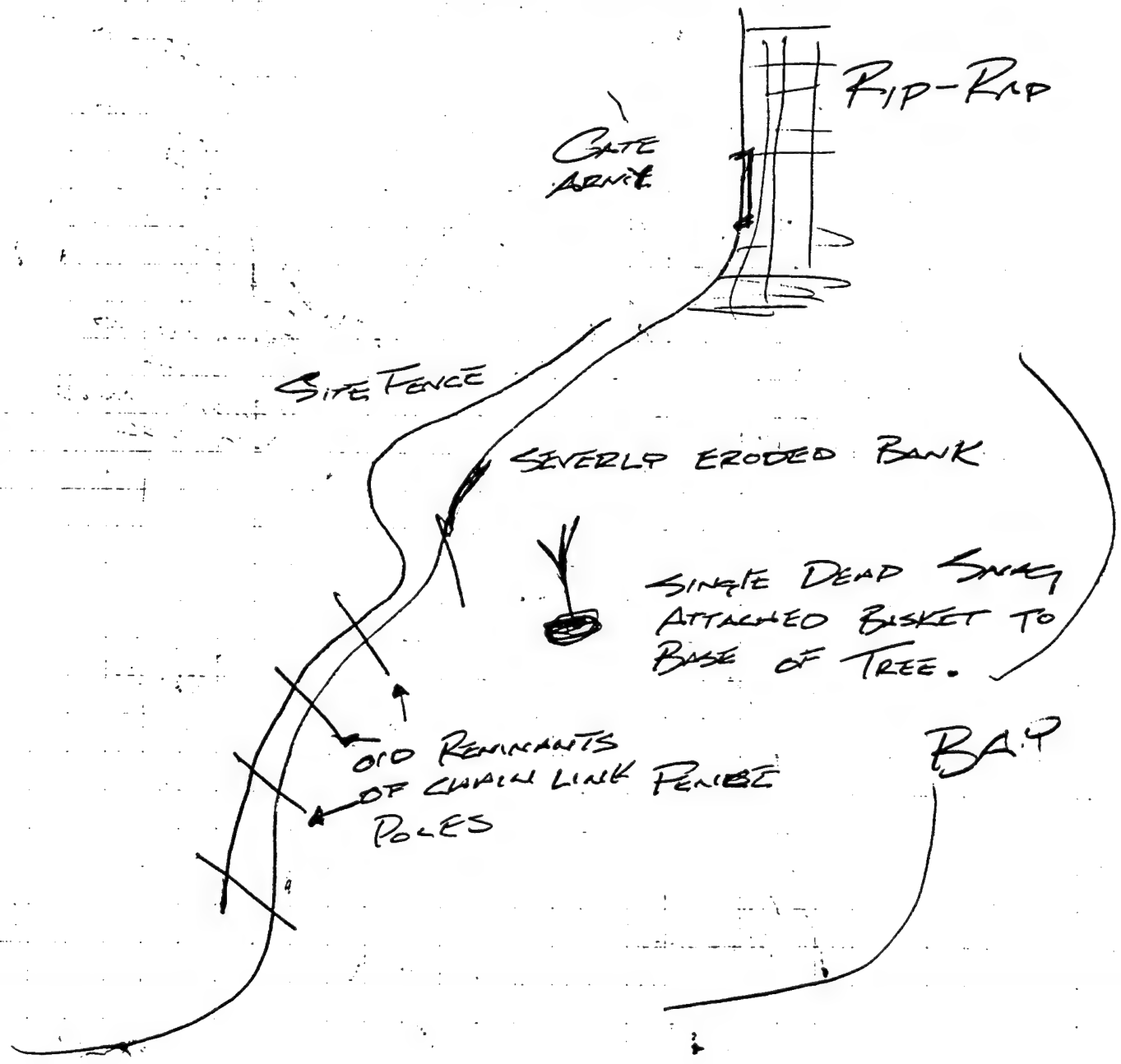
COMMENTS:

LOCATION 4

TIME 1415

TEMP : 20.9
pH : 7.55
COND : 300
DO : #6 - 10.8 mg/L
HARDNESS : TO BE DONE AT LAB.

DESCRIPTION : [redacted].



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STA 4 DATE: OCT 24, 1994

WEATHER CONDITIONS: SUNNY CLEAR SKYS IN THE 70's °F

SAMPLING EVENT: 2 WEEK TIME: 1400

WATER QUALITY

TEMP: 18.0 pH: 7.6

COND: 220 D.O.: #20 12.2 ppm

HARDNESS: #4 TAKEN

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 20	ALIVE: 20
DEAD: 33	DEAD: 37

COMMENTS: GSK	BASKET A	BASKET B
DEAD TISSUE NO.	28	29

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: GA 4 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 60'S °F

SAMPLING EVENT: WEEK 4 TIME: 1225

WATER QUALITY

TEMP: 16.0 pH: 7.5

COND: 430 D.O.: #20 10.5 ppm

HARDNESS: TAKEN #4

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 20	ALIVE: 20
DEAD: 1	DEAD: 3

COMMENTS: GJL

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 4 DATE: 11-21-94

WEATHER CONDITIONS: OVERCAST, RAIN @ EOS

SAMPLING EVENT: WEEK 6 TIME: 1430

WATER QUALITY

TEMP: 13.0 pH: 6.6

COND: 200 D.O.: #15 10.6 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 20	ALIVE: 20
DEAD: 1	DEAD: 1

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 4 DATE: Dec 5, 1994

WEATHER CONDITIONS: SUNNY IN THE 60'S °F

SAMPLING EVENT: WEEK 8 TIME: 1410

WATER QUALITY

TEMP: 13.0 pH: 5.5

COND: 300 D.O.: #12 (7.8 ppm)

HARDNESS: TAKEN

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 151 (20)

DEAD: 0

BASKET B - CLAMS REMOVED

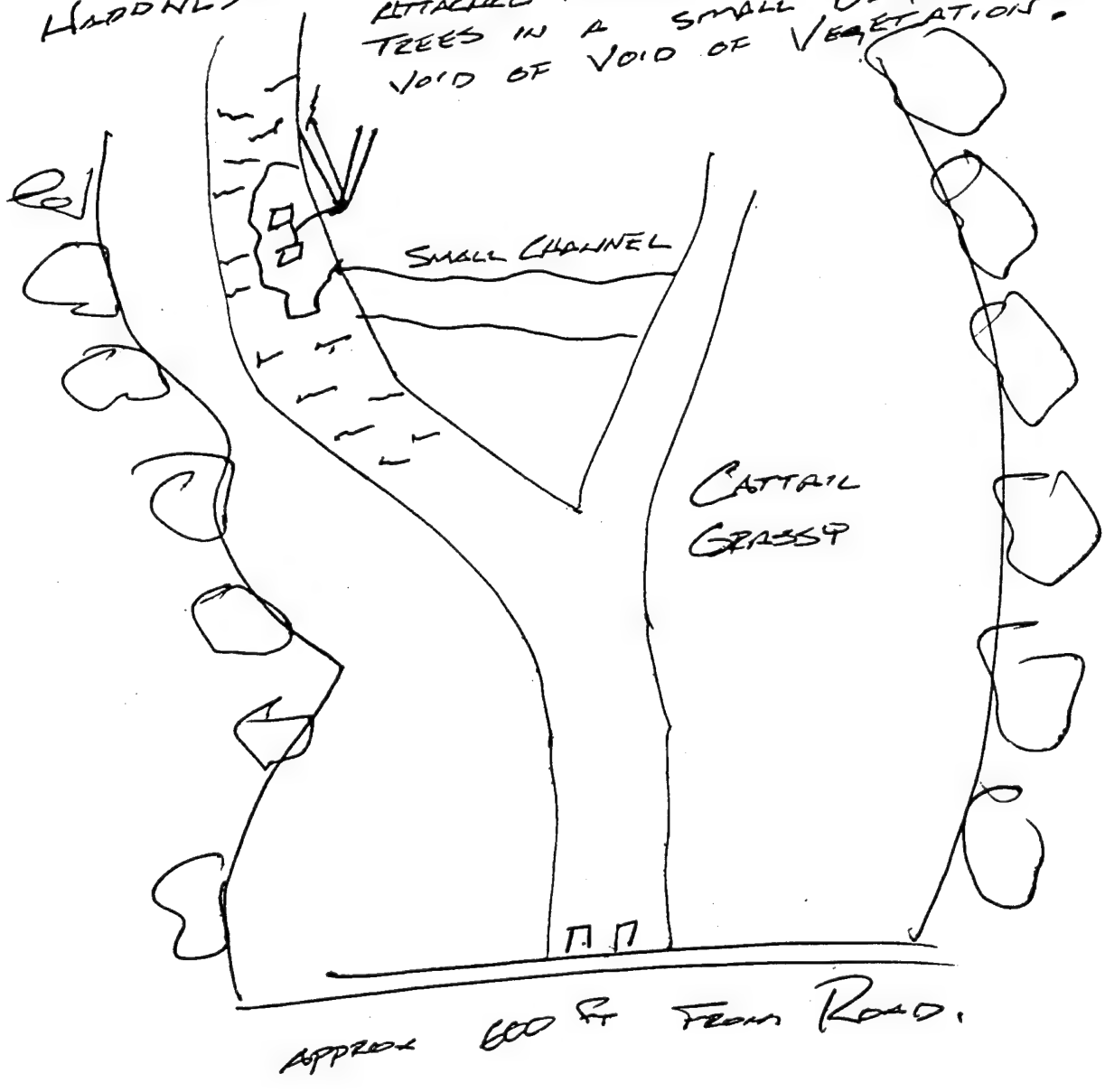
ALIVE: 146 (20)

DEAD: 1

COMMENTS: GJK REMOVED BASKETS

LOCATION 5 10-9-94

TIME : 1750
TEMP : 23.0°C
pH : 6.1
COND : 260
DO : #3 8.6 mg/L
HARDNESS : TO BE CONDUCTED AT LAB



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 5 DATE: 10-25-94

WEATHER CONDITIONS: Clear low 60's

SAMPLING EVENT: Week 2 TIME: 9:00

WATER QUALITY

TEMP: 13°C pH: 5.7

COND: 240 D.O.: #20,6 - 5.6 mg/L
#6 - 5.5 mg/L

HARDNESS: Collected

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 10

DEAD: 180

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 62

	BASKET A	BASKET B
COMMENTS: GSK		
DEAD TISSUE	143	47

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 5 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY CLEAR DUSK 50'S °F

SAMPLING EVENT: WEEK 4 TIME: 1630

WATER QUALITY

TEMP: 17.0 pH: 6.3

COND: 32- D.O.: #2 11.3 ppm

HARDNESS: TAKEN

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 10

DEAD: 3

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 4

COMMENTS: GSK

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 5 DATE: 11-22-94

WEATHER CONDITIONS: CLEAR Low 60's

SAMPLING EVENT: WEEK 6 TIME: 0910

WATER QUALITY

TEMP: 10 °C pH: 6.3

COND: 527 D.O.: #3 8.3 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20

DEAD: 1

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 2

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 5 DATE: 12-6-94

WEATHER CONDITIONS: Partly Cloudy 50s

SAMPLING EVENT: WEEK 8 TIME: 0905

WATER QUALITY

TEMP: 10.5 °C pH: 6.5

COND: 940 D.O.: #20 8.5 ppm

HARDNESS: Collected

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 21

DEAD: 2

BASKET B - CLAMS REMOVED

ALIVE: 20 (113 TOTAL LIVE)

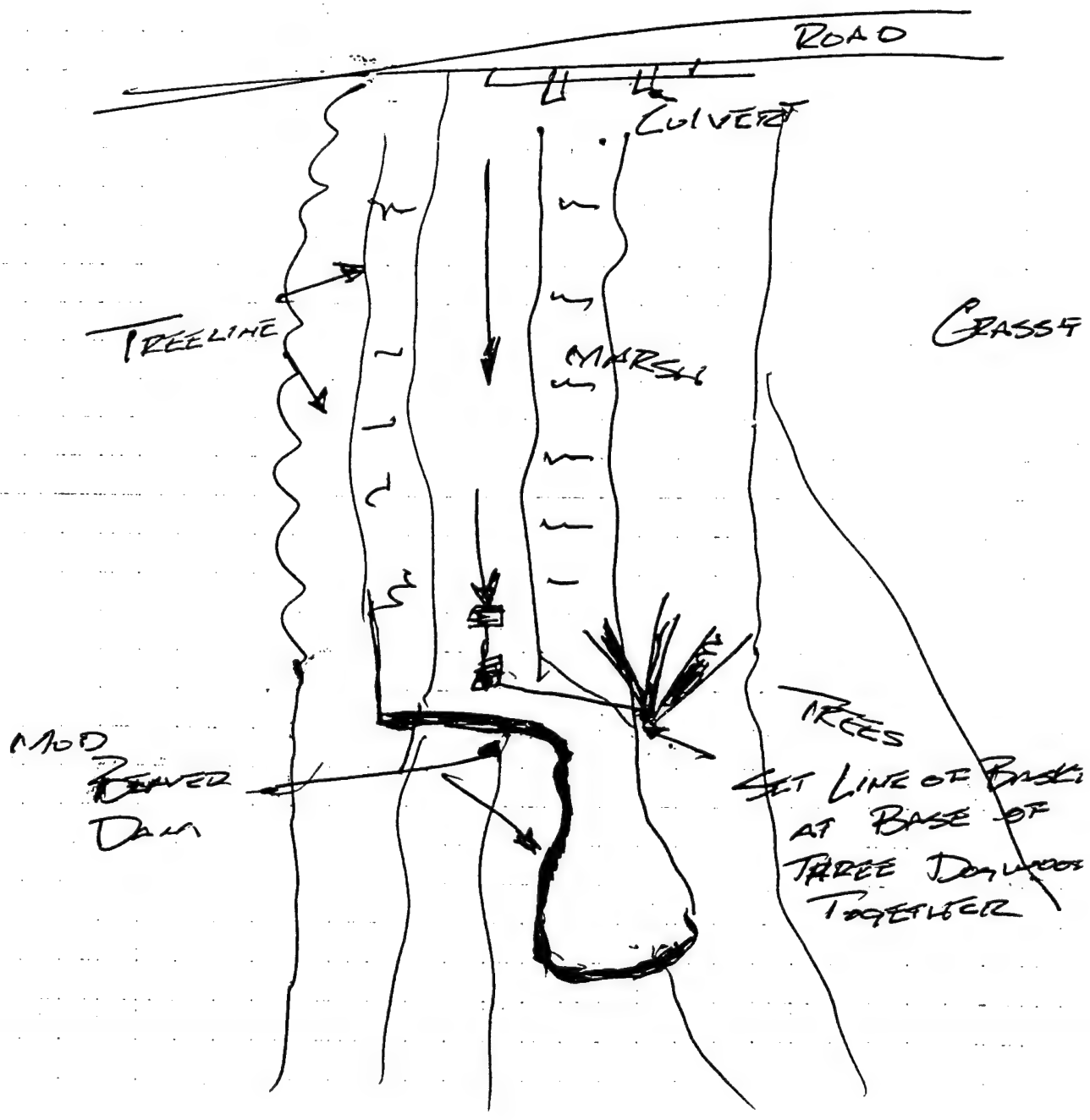
DEAD: 6

COMMENTS: Baskets Removed

LOCATION 6 10-9-74

TIME : 1650
TEMP : 19.9°C
pH : 5.7
COND : 130
DO : #20 8.1 mg/L
HARDNESS : TO BE CONDUCTED AT LAB

DESCRIPTION : BASKETS PLACED



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 6 DATE: OCT 25 1994

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 2 TIME: 1035

WATER QUALITY

TEMP: 14.5 °C pH: 6.0

COND: 130 D.O.: #336 → 6.7 mg/L

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED	BASKET B - CLAMS REMOVED
ALIVE: 10	ALIVE: 10
DEAD: 226	DEAD: 191

	BASKET A	BASKET B
COMMENTS: 65K DEAD TISSUE	222	179

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 6 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY CLEAR IN 60'S F

SAMPLING EVENT: WEEK 4 TIME: 1535

WATER QUALITY

TEMP: 17.0 pH: 6.1

COND: 180 D.O.: #6 9.1 ppm

HARDNESS: TAKEN

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 2 MOVED TO CAGE B - DEAD: 12 # NOT REMOVED

BASKET B - CLAMS REMOVED

ALIVE: 10 DEAD: 24

COMMENTS: 60's F

NO LIVE CLAMS REMOVED FROM CAGE A - 2 REMAINING WERE MOVED TO CAGE B - CAGE A REMOVED

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 6 DATE: 4-22-94

WEATHER CONDITIONS: Clear Low 60's

SAMPLING EVENT: Week 6 TIME: 0930

WATER QUALITY

TEMP: 11.0 °C pH: 6.1

COND: 380 D.O.: ~~20~~ 8.4 ppm

HARDNESS: Collected

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: Removed

DEAD: Removed

BASKET B - CLAMS REMOVED

ALIVE: 3

DEAD: 15

COMMENTS: Removed Basket B — also - Depleted No of Clams

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 6 DATE: 12-5-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 8 TIME: 1520

WATER QUALITY

TEMP: 10.5 °C pH: 5.9

COND: 230 D.O.: #15 (11.3 ppm)

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE:

DEAD:

BASKET B - CLAMS REMOVED

ALIVE:

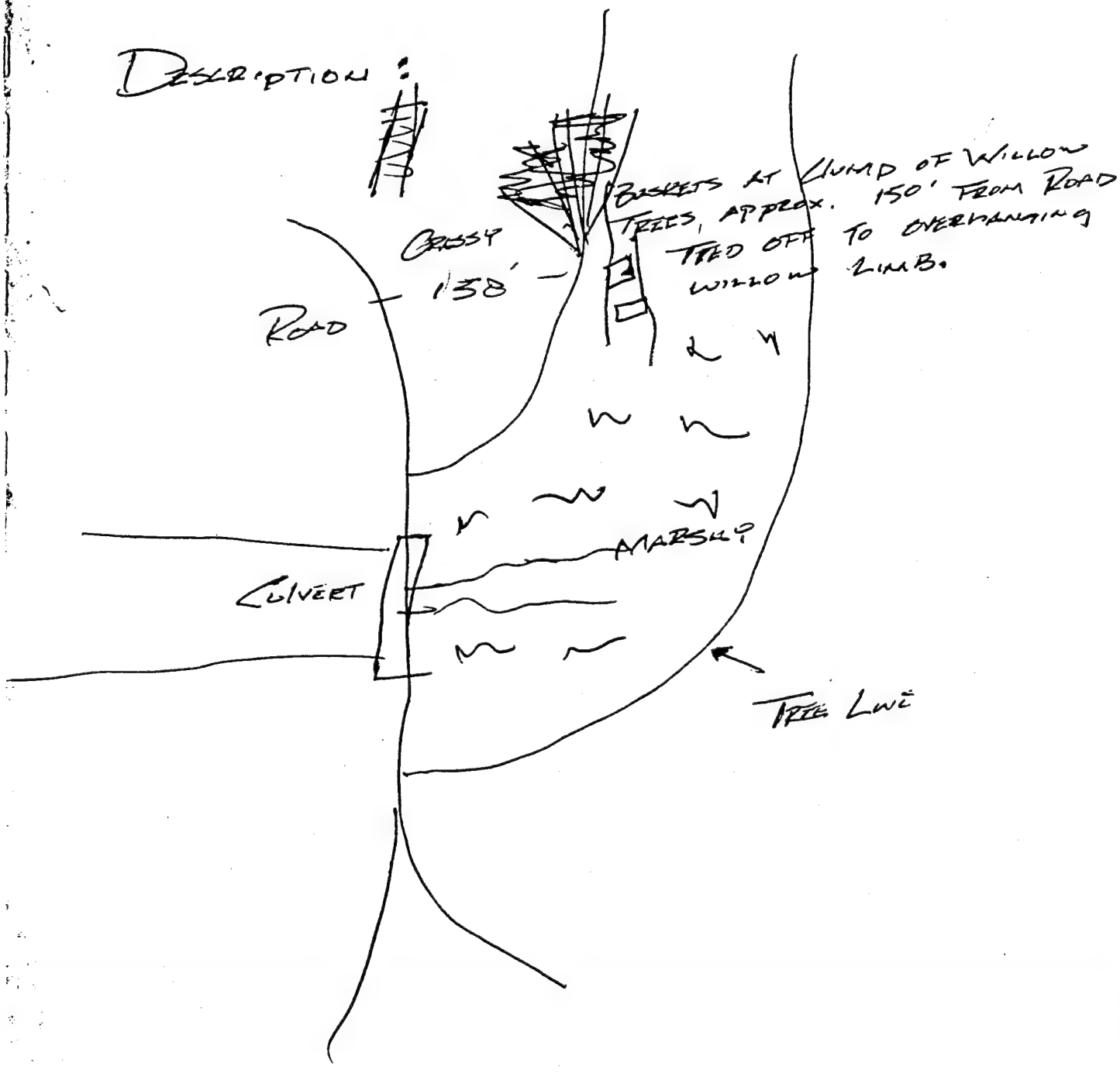
DEAD:

COMMENTS:

LOCATION: (7) 10-9-94

TIME: 1625
TEMP: 19.9°C
pH: 5.45 AND
COND: 130
DO: #15 5.2 mg/L
HARDNESS: TO BE CONDUCTED AT LAB

DESCRIPTION:



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 7 DATE: 10-25-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 2 TIME: 0940

WATER QUALITY

TEMP: 16.5°C pH: 5.3

COND: 120 D.O.: #3 → 1.0 mg/L

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE:

DEAD: 250

BASKET B - CLAMS REMOVED

ALIVE:

DEAD: 250

COMMENTS: 100% MORTALITY IN BOTH BASKETS (A, B) BASKETS WERE REMOVED

BASKET

	A	B
DEAD TISSUE	246	250

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 7 DATE: Nov 8, 1994

WEATHER CONDITIONS: clear cool in the 50's °F

SAMPLING EVENT: Week 4 TIME: 0830

WATER QUALITY

TEMP: 8.0 pH: 5.1

COND: 140 D.O.: 2.8 ppm

HARDNESS: Taken

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: —

DEAD: —

BASKET B - CLAMS REMOVED

ALIVE: —

DEAD: —

COMMENTS: Bev

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 7 DATE: 11-22-94

WEATHER CONDITIONS: Clear low 60's

SAMPLING EVENT: Week 6 TIME: 0920

WATER QUALITY

TEMP: 9.5 °C pH: 5.3

COND: 180 D.O.: #6 3.1 ppm

HARDNESS: Collected

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE:

DEAD:

BASKET B - CLAMS REMOVED

ALIVE:

DEAD:

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 7 DATE: 7-5-94

WEATHER CONDITIONS:

SAMPLING EVENT: WEEK 8 TIME: 1530

WATER QUALITY

TEMP: 14.0 pH: 5.1

COND: 140 D.O.: #3 (7.5 ppm)

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE:

DEAD:

BASKET B - CLAMS REMOVED

ALIVE:

DEAD:

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
WEEK 6 - CLAM REMOVAL
WATER QUALITY DATA

11-21, 22-94

	TEMP °C	pH	COND.	D.O.	HARDNESS	TIME
STA 1	14.0	6.2	120	6.9	80	1545
STA 2	14.0	6.1	80	6.8	60	1620
STA 3	13.0	6.1	140	8.8	100	1500
STA 4	13.0	6.6	200	10.6	140	1430
STA 5	10.0	6.3	520	8.3	120	0910
STA 6	11.0	6.1	380	8.4	100	0980
STA 7	9.5	5.3	180	3.1	60	0920
STA 8	12.0	6.8	500	10.3	120	0830

WOODBRIDGE RESEARCH FACILITY
WEEK 8 - FINAL CLAM REMOVAL
WATER QUALITY DATA

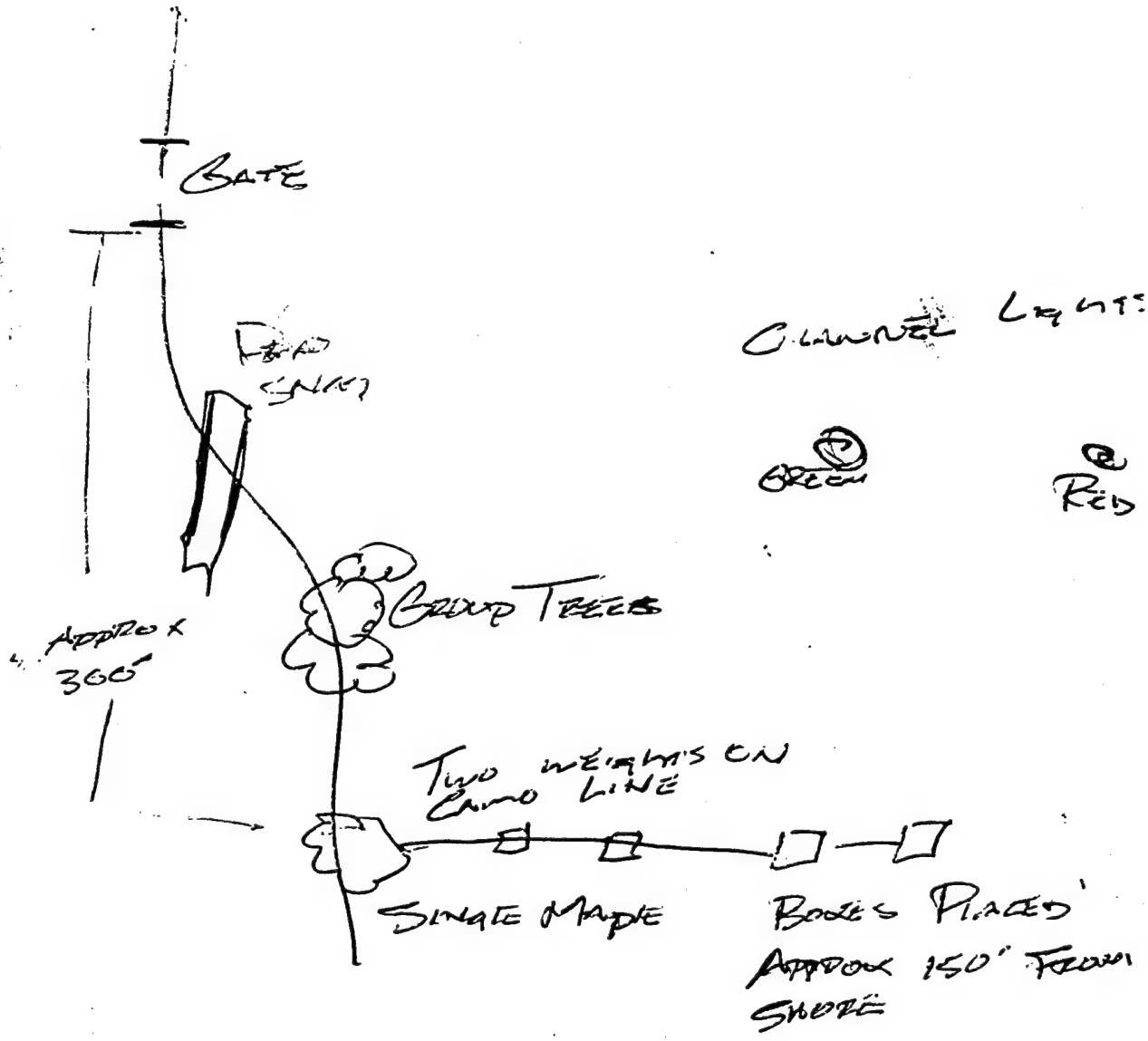
12-5,6-94

	TEMP °C	pH	COND	D.O.	HARDNESS	TIME
STA 1	15.0	6.0	200	7.2	100	1615
STA 2	14.0	5.75	180	6.5	60	1600
STA 3	14.0	5.6	290	7.9	80	1425
STA 4	13.0	5.5	300	7.8	100	1410
STA 5	10.5	6.5	940	8.5	240	0905
STA 6	10.5	5.9	230	5.9	—	1520
STA 7	14.0	5.1	140	7.5	—	1530
STA 8	10.0	6.7	900	10.6	240	0830

LOCATION 8 10-9-94

TIME : 1340
TEMP : 20.6
pH : 7.7
COND : 250
DO : 336 7.6 mg/L
HARDNESS: TO BE CONDUCTED AT LAB

DESCRIPTION:



WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 8 DATE: 10-24-94

WEATHER CONDITIONS: CLEAR SUNNY LOW 70'S

SAMPLING EVENT: WEEK 2 (REMOVAL) TIME: 1249

WATER QUALITY

TEMP: 18°C pH: 7.5

COND: 240 D.O.: #336 12.6 ppm | #2 12.6 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20

DEAD: 85

if 33 04 0

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 119

COMMENTS: A-BASKET - B

DEAD TISSUE NO. 69 106

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 8 DATE: 11-22-94

WEATHER CONDITIONS: CLEAR Mid 50's

SAMPLING EVENT: WEEK 6 TIME: 0830

WATER QUALITY

TEMP: 12.0 °C pH: 6.8

COND: 500 D.O.: #12 10.3 ppm

HARDNESS: COLLECTED

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20

DEAD: 0

BASKET B - CLAMS REMOVED

ALIVE: 20

DEAD: 1

COMMENTS:

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: STA 8 DATE: NOV 7, 1994

WEATHER CONDITIONS: SUNNY & CLEAR IN THE 60's °F

SAMPLING EVENT: WEEK 4 TIME: 1130

WATER QUALITY

TEMP: 15.0 pH: 6.8

COND: 340 D.O.: #12 11.7 PPM
~~#6~~

HARDNESS:

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20 REMOVED

DEAD: 12 "

BASKET B - CLAMS REMOVED

ALIVE: 20 REMOVED

DEAD: 11 "

COMMENTS: GSL

WOODBRIDGE RESEARCH FACILITY
FIELD DATA SHEET

LOCATION: 8 DATE: 12-6-021

WEATHER CONDITIONS: Partly Cloudy

SAMPLING EVENT: Week 8 TIME: 0830

WATER QUALITY

TEMP: 10.0°C pH: 6.7

COND: 900 D.O.: #6 10.6 ppm

HARDNESS: Collected

WEDGE CLAM SAMPLING

BASKET A - CLAMS REMOVED

ALIVE: 20 (90 TOTAL LIVE)

DEAD: 0

BASKET B - CLAMS REMOVED

ALIVE: [redacted] 20 (56 TOTAL LIVE)

DEAD: 1

COMMENTS: Removed Baskets

WOODBRIDGE RESEARCH FACILITY - WATER QUALITY DATA 10-9-94
CLAM PLACEMENT

	TEMP °C	pH	COND	D.O.	HARDNESS	TIME
STA 1	17.8	5.5	240	6.4	60	1230
STA 2	20.7	6.6	270	9.4	100	1320
STA 3	21.5	7.8	270	11.1	80	1440
STA 4	20.9	7.5	300	10.8	100	1415
STA 5	23.0	6.1	260	8.6	100	1750
STA 6	19.9	5.7	130	8.1	40	1650
STA 7	19.9	5.5	130	5.2	20	1625
STA 8	20.6	7.7	250	9.6	80	1840
CLAM HOLDING AREA	19.7	7.5	260	10.5	100	1100

WOODBRIDGE RESEARCH FACILITY — 10-24,25-94

WEEK 2 - CLAM REMOVAL

WATER QUALITY DATA

	TEMP °C	PH	COND.	D.O.	HARDNESS	TIME
STA 1	16.8	6.3	160	4.1	80	1535
STA 2	18.5	6.5	160	7.4	60	1450
STA 3	18.5	6.9	210	10.6	100	1420
STA 4	18.0	7.6	220	12.2	100	1400
STA 5	13.0	5.7	240	5.6	100	0900
STA 6	14.5	6.0	130	6.7	60	1035
STA 7	16.5	5.3	120	1.0	40	0940
STA 8	18.0	7.5	240	12.6	120	1249

WOODBRIDGE RESEARCH FACILITY — 11-7,8,-94

WEEK 4 - CLAM REMOVAL, FISHERY SURVEY

WATER QUALITY DATA

	TEMP °C	pH	COND.	D.O.	HARDNESS	TIME
STA 1	14.0	6.0	220	6.5	80	1430
STA 2	16.0	6.0	240	7.1	60	1400
STA 3	16.0	6.4	380	9.4	120	1300
STA 4	16.0	7.5	430	10.5	120	1225
STA 5	17.0	6.3	320	11.3	100	1630
STA 6	17.0	6.1	180	9.1	40	1535
STA 7	8.0	5.1	140	2.8	40	0835
STA 8	15.0	6.8	340	11.7	120	1135
POND	14.0	4.7	50	9.4	20	0845

WOODBRIDGE RESEARCH FACILITY
WEEK 2 - CLAM REMOVAL

10-24,25-04

		CLAMS REMOVED			CLAMS REMAINING	% MORTALITY
		ALIVE	DEAD	(TISSUE)		
STA 1	A	10	170	(166)	70	68
	B	10	169	(158)	71	68
STA 2	A	10	198	(166)	42	79
	B	20	6	(5)	224	2
STA 3	A	20	22	(13)	208	9
	B	20	35	(21)	195	14
STA 4	A	20	33	(28)	197	13
	B	20	37	(29)	193	15
STA 5	A	10	180	(143)	60	72
	B	20	62	(47)	168	25
STA 6	A	10	226	(222)	14	90
	B	10	191	(179)	49	76
STA 7	A	0	250	(246)	0	100
	B	0	250	(250)	0	100
STA 8	A	20	85	(69)	145	34
	B	20	119	(106)	111	48

POOLED BASKETS (A,B) FROM STA 7 WHICH HAD 100% MORTALITY

WATER CHEM. — POND - FISH

11-8-94 WEEK 4

TIME 0845

TEMP 14° C

COND 50

pH 4.7

DO #20 → 9.4 mg/L

HARDNESS TAKEN

16
+7.0
7.6
9.4

6
7.6
4.8
2.8

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FISH LABORATORY WORK SHEET

Client Name and Number WRF - SEINING

Date and Station 11-8-94 LOC 9

Type of Sample BASS LARGE/BLUEGILL LOG# _____

Fish N.	Species Name	Length (TL, FL, SL, mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
7	LARGEMOUTH	410					
8	"	390					
9	"	403					
0	"	[redacted]	356	SAMPLE			X
1	"	283					X
2	"	295					X
3	"	285			5		X
4	"	[redacted] 294					X
5							
6		[redacted]					
7	BLUEGILL	203					
8	"	201					
9	"	200					
0	"	200					
1	"	192		NO SPECIMENS			
2	"	198		TAKEN			
3	"	191					
4	"	185					
5	"	179					
6	"	175					
7							
8	CHANNEL CATFISH	410	3 TAKEN				
9	"	392					
0	[redacted]						
1							
2							
3							
4	PECAN						
5	WATTE [redacted]	RELEASED					
6	"						

FISH LABORATORY WORK SHEET

ient Name and Number WRF / GILL NETTING

ce and Station 11.9.94 DOND

pe of Sample FISH LOG#

sh .	Species Name	Length (TL, FL, SL mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
7	WHITE PERCH	241					
8	"	216					
9	"	222	TAKEN FOR				
0	"	223	SAMPLE (6)				
1	"	212					
2	"	224					
3							
4	CHANNEL CATFISH	432	SAMPLED		11-9	GN	
5	"	395	SAMPLED		11-10	GN	
6							
7							
8							
9	WHITE PERCH	209					
0	"	230		SAMPLED	11-10		
1	"	211			GN		
2	"	225					
3							
4							
5							
6							
7							
8							
9							
0							
1							
2							
3							
4							
5							
6							

FISH LABORATORY WORK SHEET

Client Name and Number WRF LOC 10

Date and Station 11-9-94 LOC 10

Type of Sample FISH ELECTROFISHING/SEINING LOG# _____

Fish No.	Species Name	Length (TL, FL, SL, mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
7	WHITE PERCH	181					
8	"	175					
9	"	182					
0	"	166					
1	"	157	SAMPLED				
2	"	155		(10)			
3	"	149					
4	"	157					
5	"	147					
6	"	147					
7							
8							
9	BLUEGILL	157					
0	"	163					
1	"	153					
2	"	146					
3	"	152	SAMPLED				
4	"	155	(10)				
5	"	164					
6	"	135					
7	"	132					
8	"	124					
9							
0							
1	BLACK CRAPPIE	196	SAMPLED				
2							
3							
4							
5							
6							

page ___ of ___

FISH LABORATORY WORK SHEET

ent Name and Number WRF

e and Station 11-10-94 LOC 10

e of Sample GILL NET LOG#

h	Species Name	Length (TL, FL, SL, mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
7	Common Carp	520		TAKEN FOR Sample			
8	"	435		2-Fish			
9							
0							
1	Yellow Perch	206					
2	"	175 *					
3	"	230		TAKEN FOR			
4	"	210		Sample			
5	"	190 *		10-10-94			
6	"	260		7-Fish			
7	"	245					
8							
9	*	NOT TS'd					
0							
1							
2							
3							
4							
5							
6							
7							
8							
9							
0							
1							
2							
3							
4							
5							
6							

FISH LABORATORY WORK SHEET

Client Name and Number VNRF

Date and Station 11-8-94 Loc 11

Type of Sample FISH / ELECTROFISH LOG# ___

Fish No.	Species Name	Length (TL, FL, SL, mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
7	BLACK CRAPPIE	170					
8	"	152		TAKEN FOR		11-8	
9	"	189		SAMPLE			
0	"	182		(5)			
1	"	190					
2	"	175					
3	"	193		SAMPLED		11-9	
4	"	184		(5)			
5	"	162					
6	"	190					
7							
8	AMERICAN						
9	EEL	285					
0	"	286					
1	"	273					
2	"	271		TAKEN FOR			
3	"	253		SAMPLE 11-8			
4	"	225		(7)			
5	"	210					
6	"	170					
7	"	295		SAMPLED	11-9		
8	"	265		(2)			
9							
0							
1							
2							
3							
4							
5							
6							

FISH LABORATORY WORK SHEET

nt Name and Number Loc 11 WRF

and Station 11-8-94 Loc 11 WETLAND

of Sample Fish / Electrofishing LOG#

Species Name	Length (TL, FL, SL, mm)	Weight (grams)	Scales Taken	Stomach Taken	K Factor	VOUCHER NUMBER
Largemouth Bass	229					1
"	242					2
"	266					3
"	253		COLLECTED FOR			4
"	239		SAMPLE (6)			5
"	223					6
"	165					
"	155					
Bluegill	166					
"	140					
"	145					
"	159					
"	138		TAKEN FOR			
"	129		SAMPLE			
"	127		NO FISH			
"	127					
"	125					
"	126					
"						
"	~~121~~					
Common Carp	310		TAKEN FOR			
"	363		SAMPLE			
"	289					
"						

A-2
EARTH TECH
FIELD NOTES

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Woodbridge SI/RI

Continued From Page

SATURDAY OCTOBER 8, 1994

WEATHER: SUNNY, CLEAR, HIGH 70s LOW 70's

0755 - CHRIS LONG AND BIOTA SUBCONTRACTORS ONSITE AT MAIN GATE.

0800 - KEITH SCHENKER ONSITE AT MAIN GATE

0805 - KATHY JANICA ONSITE AT MAIN GATE

0815 - KEVIN McCREANOR ONSITE AT MAIN GATE
- EVERYONE GOES TO EARTH TECH TRAILER TO DROP OFF CARS. THEN GO TO MAIN COMPOUND TO DROP OFF BIOTA SUBCONTRACTORS BOATS.
-

0830 - GO TO REVIEW LOCATIONS OF CLAM BOXES AND FISH COLLECTION AREAS WITH BIOTA SUBCONTRACTORS. BEGIN AT CLAM BOX SITE IN BELMONT BAY.
- ACCESS TO BELMONT BAY APPEARS TO BE REASONABLE FROM GATE NEAR TOMBSTONES. THIS ACCESS MAY ALSO BE SUFFICIENT FOR ALL SITES OUTSIDE OF THE MAIN CL 10/18 PERIMETER FENCE.

0845 - MOVING TO CLAM BOX LOCATION AT DOWNSTREAM POINT IN DRAINAGE DITCH (AREA 22).
- SUGGEST THAT ONE ACCESS POINT FOR THIS LOCATION CAN BE THE PLACE WHERE THE PERIMETER ROAD DIPS INTO THE DRAINAGE CHANNEL. THE SECOND ACCESS POINT CONSIDERED IS WHERE THE DITCH CROSSES THE ROAD FROM THE MAIN COMPOUND. SUBCONTRACTORS FEEL THAT THIS LOCATION SHOULD NOT BE TOO DIFFICULT TO GET TO. ALSO INDICATE THAT ONE FISH COLLECTION ZONE WILL BE FROM THIS DOWNSTREAM POINT IN THE DRAINAGE DITCH WHERE THE BOX IS BEING PLACED UPSTREAM TO THE BEAVER POND.

Continued on Page 44

Read and Understood By

Signed 10/8/94 Date

Signed 10/14/94 Date

PROJECT WOODBRIDGE SI/RI

Notebook No. 5

Continued From Page 43

1415 - MOVING TO LOCATION IN OCCOHANNON BAY, OFF OF
- GAURD STOPS BY TO ASK IF WE WANTED THE GATE TOMBSTONES OPENED. WE SAID YES BUT TO MEET THERE 1500. HE SAID OKAY.
- INDICATE TO SUBCONTRACTORS THAT THE CLAM BOXES SUGGESTED TO BE PLACED IN THE BAY AND TIED OFF A SNAG JUST OFFSHORE.

1430 - MOVING TO DOWNSTREAM LOCATION IN MARUMSCO CREEK
- INDICATE TO SUBCONTRACTORS THAT THE CLAM BOXES SUGGESTED TO BE PLACED AT THE CONFLUENCE OF THE DRAINAGE DITCH WITH MARUMSCO CREEK.
- ALSO NOTED THAT THES AREA, JUST UPSTREAM AND J DOWNSTREAM OF THES BOX IS ANOTHER FISH COLLECTI

1445 - MOVING TO SECOND LOCATION IN MARUMSCO CREEK.
- INDICATE THAT THES BOX IS TO BE PLACED AT THE DOWNSTREAM POINT WHERE A MEANDOR CUTS BACK F THE MAIN CHANNEL. NOTE: CAN NOT REALLY SEE THES FROM THE FENCELINE.

1500 - MOVING TO LOCATION IN AREE 22 DRAINAGE DITCH UPSTREAM OF CHARLIE ROAD.
- INDICATE THAT THESE BOXES ARE TO BE PLACED AS FAR UPSTREAM AS PRACTICAL.

CLP/GB

1505 - BACK AT GATE NEAR TOMBSTONES, GAURD UNLOCKS G AND CARES LONG AND SUBCONTRACTORS BEGIN CLEARING
- KEVIN MCCREMER GOES WITH GAURD TO SEE IF GAT NEAR AREE 1 CAN BE OPENED.

1530 - BRUSH IS CLEAR. MOVING TO GATE NEAR AREE 1.
- BEGIN TRYING TO CLEAR BRUSH ONCE GATE IS UNLOCKED.

1545 - IT IS DETERMINED THAT THE BRUSH IS TOO THICK AN SLOPE TOO STEEP TO REALLY CONSIDER THIS FOR ACCESS. WE WELL SEE IF ALLESS CAN BE ACCOMPLISHED AT UPST LOCATION IN MARUMSCO CREEK.

Continued on P

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Signed — Date — Signed — 10/1

550 - MOVING TO LOCATION AT BEAVER POND.
- INDICATE THAT THIS BOX IS TO BE PLACED JUST UPSTR
OF BEAVER DAM IN THE POND.

605 - MOVING TO LOCATION AT UPSTREAMMOST POINT ON MARU
CREEK.
- INDICATE THAT THIS BOX IS TO BE PLACED AT THE
POINT WHERE THE FENCE GOES INTO THE CREEK.
- SUBCONTRACTORS SAY THAT THIS WILL BE THE PLACE TH
WILL ACCESS ALL POINTS ON MARUMSCO CREEK PLUS T
LOCATION OFF AREE 1 (TOTAL OF 4 POINTS).
- BEGIN CLEARING BRUSH FOR ACCESS

630 - BRUSH IS CLEAR. DECIDE TO MEET TOMORROW AT 09
- EVERYONE OFFSITE FOR DAY

10/6/94

Continued on Page

Read and Understood By

Signed 10/6/94 Date

Signed 10/14/ Date

Sunday October 9, 1994

Weather: sunny, breezy high in 70's

0930 Greg and Gary of Aquatic Systems onsite. Load equipment
Kathy Juniga, Chris Long, Kevin McCreanor and Keith Siskenkel onsite. All go to tombstone location to prepare equipment.

1030 Gene Mavrakis onsite w/ clams. Jeff Briggs onsite. Unload clams

1050 Divide clams into 16 baskets. 250 clams in each. Wire baskets in edge of bay.

1150 Sample collected for initial conditions. 40 clams packaged.

1210 Chris, Gary, Greg go to first 2 sites w/ 4 baskets. Gene offsite. Keith offsite for lunch. Kevin goes to get other gate opened. Jeff and Kathy watch clams.

1250 Keith delivers lunch. Kevin back to pick up clam baskets for next location.

1310 Kevin and Jeff go to deliver baskets to boat for Sites 3 & 4.
Keith and Kathy watch clams.

1330 JEFF BRIGGS OFFSITE FOR DAY

1510 BASKETS AT SITES 1, 2, 3, AND 4 HAVE BEEN DEPL
EVERYONE BACK AT TOMBSTONE LOCATION TO GET
FOR SITES WITHIN AREE 22 (AT BEAVER POND
UPSTREAM OF CHARLIE ROAD).

1530 CHRIS, GARY, GREG, KATHY, AND KEITH GO TO DEPLOY
AT SITE UPSTREAM OF CHARLIE ROAD.

Continued on P

Read and Understood By

Kathy Janiga
Signed

10-9-94
Date

Joan Beales
Signed

14

1630 - CHRES, GARY AND GREG GO TO DEPLOY CLAMS AT BEAVER
- KATHY AND KEITH OFFSITE FOR DAY.

1710 - CHRES, GARY AND GREG BACK AT TOMBSTONE LOCATION T.
GET CLAMS FOR 3RD AREE 22 LOCATION.

1720 - CHRES, GARY AND GREG GO TO DOWNSTREAMMOST LOCATI
FOR AREE 22 TO DEPLOY CLAMS.
- KEVEN MCCROMMER WATCHING CLAMS.

1815 - CHRES, GARY AND GREG BACK AT TOMBSTONE LOCATION T.
PREPARE DEPLOYMENT OF CLAMS IN BAY.

1830 - GARY AND GREG TAKE BOAT INTO BAY TO DEPLOY CLAMS
- CHRES AND KEVEN STAY ONSHORE.

1845 - CLAMS ARE DEPLOYED.
- GARY AND GREG BACK ON SHORE.
- EVERYONE PACKING UP EQUIPMENT.

1915 - EQUIPMENT PACKED
- GARY AND GREG GO TO DROP OFF BOAT ON MAIN COMPA
- CHRES AND KEVEN GO TO MAIN GATE.

1930 - CHRES, KEVEN, GARY AND GREG OFFSITE FOR DAY.

10/9/94

Continued on Page

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Signed 10/9/94 Date Signed 11-11 Da

PROJECT WOODBRIDGE SI/RI

Continued From Page —

MONDAY OCTOBER 24, 1994

WEATHER: SUNNY, CLEAR, HIGH IN THE 70'S. NOT WINDY

1200 - CHRIS LONG, GARY AND GREG (AQUATIC SYSTEMS, INC) ONSI
MAIN GATE.
- TAKE CAR UP TO BRIDGE OVER MARUMSCO CREEK.
- MOBE TO GET BOAT.

1220 - CHRIS LONG, GARY AND GREG AT TOMBSTONE LOCATION, (9
MEETERS, GETTING READY TO SAMPLE.
- GUARD OPENS GATE AT TOMBSTONE LOCATION.
- PLAN IS TO SAMPLE LOCATIONS IN BAYS AND MARUMS
CREEK BEGINNING AT LOCATION NEAR TOMBSTONES AND EN
AT UPSTREAMMOST LOCATION IN MARUMSCO CREEK. DRIVE
IN CAR TO GET TRUCK TO BRING BOAT BACK INTO THE
FACILITY.

1240 - GREG AND GARY GO OUT TO GET BASKETS OFF SHORE
TOMBSTONE LOCATION. (LOCATION #8)
- COLLECTING WATER QUALITY DATA.

1250 - GREG AND GARY BRING BASKETS ON SHORE TO PROCESS S

1300 - BASKET A - 84 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 119 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE

1310 - GARY RETIRING BASKETS CLOSED. GREG DOING PAPERWOR

1315 - GARY AND GREG TAKING BASKETS BACK OUT INTO
BAY

1320 - CHRIS, GARY AND GREG MOVING TO NEXT LOCATION.
LOCATION IN BAY OFF OF AREA 1. (LOCATION #4)

Continued on P

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10/24/94
Date

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1395 - ARRIVED AT LOCATION IN BAY OFF AREA 1. RETRIEVED AND BROUGHT THEM TO SHORE FOR SAMPLING (LOCATION #1
- GARY COLLECTING WATER SAMPLES FOR WATER QUALITY DA

1355 - BASKET A - 33 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 37 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE

1400 - GARY RETZING BASKETS CLOSED. GREG DOING PAPERWORK

1405 - GARY AND GREG TAKING BASKETS BACK OUT INTO THE BAY

1410 - CHRIS, GARY AND GREG MOVING TO NEXT LOCATION. THE C
OF DRAINAGE DITCH FROM LANDFILLS WITH MARUMSCO CREEK

1415 - ARRIVED AT LOCATION AT CONFLUENCE OF DRAINAGE D
FROM LANDFILLS WITH MARUMSCO CREEK. (LOCATION #3)
- GARY COLLECTING WATER QUALITY SAMPLES.
- GREG PULLS BASKETS INTO BOAT.

1420 - GREG COLLECTING SAMPLES FROM BASKET A (WITH TIE), CH
COLLECTING SAMPLES FROM BASKET B (NO TIE).

1425 - BASKET A - 22 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 35 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE

1430 - GREG PLACING BASKETS IN WATER AFTER TYING THEM
- MOVING UPSTREAM TO LOCATION #2.

1445 - ARRIVED AT LOCATION #2
- GARY COLLECTING WATER QUALITY DATA
- GREG PULLING UP BASKETS INTO BOAT. NOTE: LINE FROM
HAS BEEN CUT. MAY HAVE BEEN FROM BEAVER. BASKETS WE
ALSO QUITE DAMAGED, NUMEROUS ROPES WERE CUT OR
APPEARED TO BE GNAWED THROUGH BY BEAVER

Continued on Page

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Signed 10/24/94 Date Signed 11-11-

1950 - COLLECTING SAMPLES FROM BASKETS. CHRIS COLLECTING BASKET A, GREG COLLECTING FROM BASKET B

1455 - BASKET A - ~~11~~ CC 10/24/94 198 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 6 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE

1510 - GREG PLACING BASKETS BACK INTO WATER AFTER TYING CLOSED AND RETYING LEADERS TO BASKETS
- MOVING UPSTREAM TO LOCATION #1
CC 10/24/94

1530 - ~~ARRIVE~~ ARRIVE AT LOCATION #1
- GARY COLLECTING WATER QUALITY SAMPLES
- GREG LOOKING FOR BASKETS WITH HOOK, LEADER TO FROM FENCE IS NO LONGER THERE.

1535 - DECIDE TO DRAG THE AREA FOR THE BASKETS.

1540 - LOCATED THE BASKETS. GREG PULLING THEM ONTO THE
1545 - COLLECTING SAMPLES FROM BASKETS. CHRIS COLLECTING BASKET A, GREG COLLECTING FROM BASKET B.

1550 - BASKET A - 170 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 169 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 10 LIVE COLLECTED FOR SAMPLE
1555 - GREG PLACES BASKETS BACK IN WATER AFTER REDDAG. DECIDE BASKETS OF
1600 - GARY AND CHRIS GO TO PICK UP TRUCK AND TRAILER.
- GREG ORGANIZING EQUIPMENT AT BRIDGE

1615 - GARY AND CHRIS BACK AT BRIDGE TO COLLECT EQUIPMENT

1630 - EQUIPMENT LOADED
- GARY, GREG AND CHRIS GO TO EARTH TECH TRAILER SHUCK DEAD CLAMS AND TITRATE WATER SAMPLES

Continued on P

Read and Understood By

Chris Ly
Signed

10/24/94
Date

Cathy Jennings
Signed

1740 - COMPLETED SHUCKING DEAD CLAMS. THE FOLLOWING NU
WERE COUNTED; FOR DEAD TISSUE SAMPLE (OTHERS WERE
empt

LOCATION	BASKET	NUMBER
1	A	166
1	B	158
2	A	166
2	B	5
3	A	13
3	B	21
4	A	28
4	B	29
8	A	69
8	B	106

1750 - FINISHED CLEANING UP SITE. MOVING BOAT TO BEHIND BUILDING 201.

1800 - EVERYONE OFF-SITE FOR DAY

10/24/94

Continued on Page

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Signed 10/24/94 Signed 11/14

Date D

TUESDAY OCTOBER 25, 1994

WEATHER: CLEAR, COOL, HIGH IN LOW 50's @ 0730. FORCAST CLEAR WITH HIGH IN THE LOW 70's.

0730 - CHRIS LONG ONSITE AT MAIN GATE.
- TRYING TO FIX CAMERAS. DROPPED THE ONE HAD YESTERDAY IN WATER AT LOCATION #2. BOTH CAMERA FILM FROM YESTERDAY ARE PROBABLY TRASH NOW. CA BROUGHT TODAY DOESN'T APPEAR TO BE WORKING. PUT BATTERIES IN STILL NOT WORKING. BOUGHT A DISPOSABLE CAMERA IN CASE CAN NOT GET THIS CAMERA WORKIN

0810 - GARY AND GREG (AQUATIC SYSTEMS, INC.) ON SITE AT MAIN
- SIGN IN AND MOVE TO PICK UP THE BOAT.

0820 - MOB TO LOCATION #5 (DOWNSTREAM MOST LOCATION IN DRAINAGE DITCH (AREE 22)).

0825 - ARRIVE AT LOCATION #5 (STAGING AREA). CALIBRATING METERS AND ORGA EQUIPMENT AT ROAD CROSSING DOWNSTREAM OF LOCATION #5 TO JUST WALK IN, INSTEAD OF USING THE BOAT DUE TO IT LOW TIDE.

0840 - READY TO WALK IN TO LOCATION #5. DECIDE TO MOVE TO WELL HOUSE AND WALK IN.

0845 - LEAVE VEHICLES AT WELL HOUSE AND WALK IN TO LO

0850 - ARRIVE AT LOCATION #5.
- GARY AND GREG COLLECTING WATER QUALITY DATA.

0855 - FINISH COLLECTING WATER QUALITY DATA
- GARY AND GREG RETRIEVING BASKETS

0900 - BASKETS PULLED TO SHORE FOR SAMPLING. GARY COLLECTING SAMPLES FROM BASKET A, GREG COLLECTING FROM BASKET B.

Continued on Pag

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Signed

10/25/94
Date

Kathy Jones
Signed

11'

0915 - BASKET A - 180 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 62 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE
- RETRIVE BASKETS CLOSED
- GREG AND GARY PLACING BASKETS BACK IN WATER
- PACKING UP EQUIPMENT.

0920 - LEAVING LOCATION #5

0925 - BACK AT VEHICLES
- PREPARING TO MOVE TO LOCATION #7. (UPSTREAM MUST LOCA
IN DRAINAGE DITCH (ARUE 22)).

0930 - CHRIS GOES TO TRAILER TO GET ANOTHER COOLER.
GARY AND GREG GO TO LOCATION #7 TO START SAMPLING

0935 - GARY AND GREG COLLECTING WATER QUALITY DATA
- CHRIS AT LOCATION #7.

0940 - FINISH COLLECTING WATER QUALITY DATA
- GARY AND GREG RETRIEVING BASKETS

0945 - BASKETS PULLED TO SHORE FOR SAMPLING. GARY COLLECTI
SAMPLES FROM BASKET A, GREG COLLECTING FROM BASKE

0950 - BASKET A - 230 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 0 LIVE COLLECTED FOR SAMPLE
BASKET B - 230 DEAD COLLECTED FOR SAMPLE
(NO TIE) 0 LIVE COLLECTED FOR SAMPLE
} 100% MORTALITY

0955 - PACKING UP EQUIPMENT AND HEADING FOR NEXT LOCATION
LOCATION #6 IS LAST LOCATION WHICH IS AT THE BEAVER

1005 - ARRIVE AT LOCATION #6
- GARY AND GREG PREPARING EQUIPMENT
- GARY GOES TO COLLECT WATER QUALITY DATA

Continued on Page

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Signed — Date — Signed — Date

10/25/94

11/14/

NOTEBOOK NO.

PROJECT WOODBRIDGE SI/RI

Continued From Page 53

1010 + CHRIS AND GREG PUT BOAT IN WATER

1015 - GARY AND GREG IN BOAT ROUNDING TO LOCATION OF BASKET
+ LINE FROM BASKET HAS BEEN CUT. GARY ATTEMPTING TO FIND
LINE/BASKETS BY DRAGGING WITH A HOOK

1020 + LINE HAS BEEN FOUND. DECIDE TO TAKE LINE TO DAM AND
TIE LINES TO SHORE
- BASKETS ARE FULL OF SILT. GARY AND GREG TAKE BASKE
DOWNSTREAM OF DAM TO WASH OUT SILT FROM BASKETS.
- WILL PREPARE SAMPLES ON BOWER DAM. GREG COLLECTING
SAMPLES FROM BASKET A, GARY COLLECTING SAMPLES FR
BASKET B.

1035 - BASKET A - 226 DEAD COLLECTED FOR SAMPLE
(HIS TIE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 191 DEAD COLLECTED FOR SAMPLE
(N. TIE) - 10 LIVE COLLECTED FOR SAMPLE
- GARY AND GREG RETRIEVE BASKETS.

1040 - PLACING BASKETS BACK IN WATER. DECIDE NOT TO TI
TO SHORE SINCE CAN EASILY FIND BASKETS BY DRAGGING FO
- MOVING TO TRUCK TO LOAD EQUIPMENT AND BOAT.

1045 - FINISHED PACKING EQUIPMENT. TAKING BOAT BACK TO B
201, THEN TO TRAILER TO SHUCK DEAD CLAMS AND I
WATER SAMPLES.
- GARY DECIDES TO TITRATE SAMPLES AT BOWER DAM LOCATI

1100 + GARY FINISHES THE TITRATIONS
- GREG AND GARY GO TO DROP OFF BOAT AT BUILDING 2
- CHRIS GOES TO TRAILER TO SET UP SHUCKING STATI

1120 + GREG AND GARY AT TRAILER TO SHUCK DEAD CLAMS.
+ CHRIS, GREG AND GARY SHUCKING DEAD CLAMS.

Continued on P

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10/25/94
Date

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1225 - COMPLETED SHUCKING DEAD CLAMS. THE FOLLOWING NUM of TISSUE WERE COUNTED. from dead clams

LOCATION	BASKET	NUMBER
5	A	143
5	B	47
6	A	222
6	B	179
7	A	246
7	B	250

1230 - FINISHED CLEANING UP SITE
- EVERYONE OFFSITE.

10/25/94

Continued on Page

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Signed

10/25/94
Date

Signed

11/14
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NOTEBOOK NO. ____

PROJECT WOODBRIDGE SI/RI

Continued From Page —

TUESDAY NOVEMBER 1, 1994

WEATHER: RAINY, HIGH IN THE 60'S

1000 - CHRIS LONG AND KEITH SCHENKEL ONSITE TO MOVE EQUIPMENT FROM TRAILER TO STORAGE ROOM IN BLD 211.

1230 - CHRIS LONG AND KEITH SCHENKEL OFFSITE FOR LUNCH AFTER MOVING TWO LOADS INTO STORAGE ROOM.

1330 - CHRIS LONG AND KEITH SCHENKEL BACK ONSITE. IT RAINING VERY HARD WITH LARGE HAIL. WE RIDE STORM OUT AT THE MAIN GATE.

1345 - CHRIS LONG AND KEITH SCHENKEL RESUME MOVING EQUIPMENT.

1500 - CHRIS LONG AND KEITH SCHENKER FINISHED MOVING EQUIPMENT AND LEAVE SITE FOR DAY.

11/1/94

Continued on Pag

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Signed

11/1/94
Date

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OJECT WOODBRIDGE SI/RI

NOTEBOOK NO. —

Continued From Page —

CL 11/7

~~TUE~~ MONDAY NOVEMBER 7, 1994

WEATHER: SUNNY, CLEAR, BREEZY, HIGH IN THE 70's FORCAST.

1000 - CHRIS LONG ONSITE AT MAIN GATE WAITING FOR SUBCONTRACTORS (AQUATIC SYSTEMS, INC)

1030 - GARY AND GREG ONSITE (AQUATIC SYSTEMS, INC.)
- MOVING ONE CAR NEAR LOCATION #1 AND GOING TO GET BOAT BY BUILDING 201.

1045 - ARRIVE AT BUILDING 201. GARY AND GREG HOOKING UP B
1055 - MOVE TO TOMBSTONE AREA TO LAUNCH BOAT NEAR LOCATIO
1100 - GARY, GREG AND CHRIS AT TOMBSTONE AREA ORGANIZING EQUIPMENT AND WAITING FOR GUARD TO OPEN GATE.

1110 - GUARD ARRIVES TO UNLOCK GATE. STILL ORGANIZING EQUI

1120 - EQUIPMENT READY. GARY AND GREG LAUNCHING BOAT AT NEAR TOMBSTONES.
- WILL FOLLOW SAME SAMPLING ORDER AS LAST TIME.

1130 - ARRIVE AT LOCATION #8. GARY AND GREG RETRIEVING BASKETS. CHRIS WAITING ON SHORE. WILL COLLECT SAMPLES SHORE.

1135 - BASKETS BROUGHT TO SHORE. GARY COLLECTING SAMPLES FR BASKET A, GREG COLLECTING SAMPLES FROM BASKET B.

1140 - BASKET A - 12 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 11 DEAD COLLECTED FOR SAMPLE
(WITHOUT TIE) - 20 LIVE COLLECTED FOR SAMPLE
- BASKETS RETIED CLOSED

1145 - GARY AND GREG TAKING BASKETS BACK OUT INTO BAY
- GARY COLLECTING WATER QUALITY SAMPLES.

Continued on Page

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Signed

11/7/94
Date

Signed

11/14/
Da

1150 - KATHY JANIGA ONSITE AT LOCATION #8.

1155 - KATHY JANIGA GOES TO MAIN ~~COMPOS~~ GATE TO PICK UP ALFRED PINCKNEY OF US FISH AND WILDLIFE. CHRIS LONG TELLS KATHY THAT THE NEXT LOCATION TO BE COMPLETED IS LOCATION #4, THE LOCATION IN THE BAY OFF AREA 1.
- CHRIS LONG, GARY, AND GREG HOP IN BOAT AND START TOWARDS LOCATION #4.

1225 - CHRIS LONG, GARY, AND GREG ARRIVE AT LOCATION #4.
- GARY COLLECTING WATER QUALITY SAMPLES/DATA.

1230 - BASKETS RETRIEVED. THE TIDE IS EXTREMELY LOW SO WE ARE PROCESSING THE SAMPLES AT THE BASKET LOCATION WILL ADD SOME LIME LATER AND TAKE THEM OUT FURTHER
- GARY COLLECTING SAMPLES FROM BASKET A, GREG COLLECTING SAMPLES FROM BASKET B.

1235 - BASKET A - 1 DEAD COLLECTED FOR SAMPLE.
(HAS TIE) - 20 LIVE COLLECTED FOR SAMPLE.
BASKET B - 3 DEAD COLLECTED FOR SAMPLE.
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE.
- KATHY JANIGA AND DR. PINCKNEY ONSITE AT LOCATION * INSIDE FENCE.

1240 - CHRIS LONG GOES TO TALK TO DR. PINCKNEY WHILE GARY AND GREG RETIE BASKETS AND ADD ADDITIONAL TO BASKETS TO TAKE THEM FURTHER OUT TO COMPLETELY SUBMERGE BASKETS

1245 - MOVING TO LOCATION # 3

1255 - BECAUSE OF LOW TIDE, MANEUVERING UPSTREAM THROUGH MARUMSCO CREEK IS DIFFICULT.
- ARRIVE AT LOCATION #3

Continued on Pag

Read and Understood By

Signed 11/7/94 Date

Signed 11/14 D

300 - GARY COLLECTING WATER QUALITY SAMPLES/DATA.
- GREG WAITS UNTIL SAMPLES ARE COLLECTED THEN RETRIEVES BASKETS AT LOCATION #3
- BASKETS RETRIEVED. GREG COLLECTING SAMPLES FROM BASKET CHRIS COLLECTING SAMPLES FROM BASKET B.

310 - BASKET A - 4 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 2 DEAD COLLECTED FOR SAMPLE
(NO TIE) 20 LIVE COLLECTED FOR SAMPLE

315 - CHRIS AND GREG RETIE BASKETS
- GREG PLACES BASKETS BACK IN WATER
- MOVING TO LOCATION #2

1345 - ARRIVE AT LOCATION #2 AFTER A VERY DIFFICULT JOURNEY DUE TO THE LOW WATER.
- CHRIS, GARY, AND GREG GO TO SHORE TO DISCUSS EVENTS WITH KATHY AND DR. PINCHNEY.
- DECIDE TO RETRIEVE BASKETS AND BRING THEM TO SHORE S DR. PINCHNEY CAN LOOK AT THE BASKETS/CLAMS.

1355 - GREG AND GARY GO TO COLLECT WATER QUALITY SAMP AND RETRIEVE THE BASKETS
1400 - GARY COLLECTING SAMPLES FROM BASKET A AND GREG COLLECTING SAMPLES FROM BASKET B.

1405 - BASKET A - 1 DEAD COLLECTED FOR SAMPLE
(HAS TIE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 4 DEAD COLLECTED FOR SAMPLE
(NO TIE) - 20 LIVE COLLECTED FOR SAMPLE

1410 - GARY AND GREG RETRIEVE BASKETS. AND ALSO RETRIEVE SOME THE ROPES.
1415 - BASKETS PLACED BACK IN WATER AND EVERYONE MOVING TO LOCA #1.

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PROJECT WOODBRIDGE ST/RI

Notebook No. 5

Continued From Page 59

1430 - EVERYONE ARRIVES AT LOCATION #1
- GREG AND GARY COLLECTING WATER QUALITY DATA/SAMPLES

1435 - GREG RETRIEVING BASKETS. ONCE AGAIN THE ROPES AT LOCATION HAVE BEEN CHEWED THROUGH AND GREG MUST TRY TO FIND THE BASKETS.

1440 - BOTH BASKETS RETRIEVED AND PLACED IN BOAT FOR SAMPLE PROCESSING. GREG SAMPLING BOTH BASKETS.

1445 - BASKET A - 55 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 10 LIVE COLLECTED FOR SAMPLE (11 REMAIN
BASKET B - 49 DEAD COLLECTED FOR SAMPLE
(NO TIE) 10 LIVE COLLECTED FOR SAMPLE

1450 - GREG RETRIEVING BASKETS CLOSED AND PLACING BASKETS BACK INTO WATER.
- GREG AND GARY BRING THE BOAT TO SHORE TO REMOVE IT FROM THE WATER.

1500 - CHRIS LONG, GARY, KATHY JANIGA AND DR. PINCKNEY TO GET TRUCK AND TRAILER FOR BOAT.

1510 - EVERYONE BACK AT LOCATION #1 TO LOAD BOAT AND EQUIPMENT.

1520 - MOVING TO LOCATION #6 (BEAVER POND)

1530 - EVERYONE AT THE BEAVER POND (LOCATION #6). GARY AND GREG COLLECTING THE WATER QUALITY SAMPLES, ETC.

1540 - DR. PINCKNEY LEAVES FOR THE DAM.
- GREG AND GARY TAKE BOAT TO RETRIEVE CLAMS.
- CHRIS AND KATHY ON THE BEAVER DAM.

1545 - BASKETS PULLED OUT OF WATER. GARY PROCESSING SAMPLES FOR BASKET A, GREG COLLECTING FROM BASKET B.

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1550 - BASKET A - 12 DEAD COLLECTED FOR SAMPLE (2 REMAINING ADDED BASKET B
(HAS TREE) - 0 LIVE COLLECTED FOR SAMPLE
BASKET B - 23 DEAD COLLECTED FOR SAMPLE
(NO TREE) - 10 LIVE COLLECTED FOR SAMPLE (18 REMAINING 2 FROM BASK
- BASKET A REMOVED AND BASKET B PLACED BACK IN WATER.

1555 - GREG AND GARY MOVING BACK TO EDGE OF POND TO LOAD TR

1600 - EVERYONE MOVING TO LOCATION #5.

1605 - AT THE PUMPHOUSE #1, GUARD STOPS BY AND ASKS IF W CAN HELP A BIRD THAT IS INJURED. WE ALL GO TO HELP.

1615 - BIRD HAS A LURE CAUGHT IN ITS WING. GREG AND GA CATCH BIRD, REMOVE LURE THEN RELEASE BIRD.
- MOVING BACK TO PUMPHOUSE #1

1620 - AT PUMPHOUSE #1, GREG AND GARY GETTING EQUIPMENT TOGETHER.

1625 - MOVING TO LOCATION # 5.

1630 - EVERYONE AT LOCATION #5. GARY COLLECTING WATER QUALITY SAMPLES GREG RETRIEVING BASKETS. GREG COLLECTING SAMPLES FROM BAS GARY COLLECTING SAMPLES FROM BASKET B.

1635 - BASKET A - 3 DEAD COLLECTED FOR SAMPLE
(HAS TREE) - 10 LIVE COLLECTED FOR SAMPLE
BASKET B - 4 DEAD COLLECTED FOR SAMPLE
(NO TREE) - 20 LIVE COLLECTED FOR SAMPLE

1640 - GREG PLACES BASKETS BACK IN WATER AFTER TYING THEM CL
- MOVING BACK TO VEHICLES.

1645 - EVERYONE BACK AT THE VEHICLES. GARY FINISHING THE WATER QUALITY SAMPLING

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1650 - MOVING TO BUILDING 211 TO SHUCK DEAD CLAMS TITRATE WATER SAMPLES

1655 - AT BUILDING 211. KATHY JANIGA, CHRIS LONG, AND GREG SHUCKING. GARY TITRATING.

1715 - COMPLETED SHUCKING DEAD CLAMS. THE FOLLOWING NUMBERS WERE COUNTED. (TISSUE COLLECTED - OTHERS EL

LOCATION	BASKET	NUMBER
1	A	42
1	B	9
2	A	1
2	B	3
3	A	1
3	B	0
4	A	0
4	B	0
5	A	0
5	B	0
6	A	12
6	B	23
8	A	1
8	B	6

- GARY STILL TITRATING WATER SAMPLES. KATHY, CHRIS, GREG CLEANING UP AND PUTTING EQUIPMENT AWAY.

1745 - FINISHED CLEANING UP AND PUTTING EQUIPMENT AWAY AND MOVING TO PUT THE BOAT AWAY.

1800 - FINISHED STORING EQUIPMENT/BOAT. EVERYONE OFFSITE FOR D

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JECT WOODBRIDGE SI/RI

Continued From Page

TUESDAY NOVEMBER 8, 1994

WEATHER: SUNNY, CLEAR, COOL, HIGH OF 50°F. FORECAST OF SUNN
AND CLEAR WITH HIGHS IN THE UPPER 60's.

1745 - KATHY JANEGA ONSITE AT MAIN GATE

1750 - GREG AND GARY ONSITE AT MAIN GATE

1755 - CHRIS LONG ONSITE AT MAIN GATE

0800 - GO TO PICK UP EQUIPMENT / BOAT

0815 - FINISHED GETTING EQUIPMENT / BOAT. GARY AND GREG WAN
TAKE WATER QUALITY SAMPLES / DATA FROM LOCATION # 7
EVEN THOUGH THERE WEREN'T ANY CLAMS LEFT TO SAMPL
THERE. THIS IS FOR CONSISTENCY. MOVING TO LOCATION #

0830 - GARY AND GREG FINISH COLLECTING WATER QUALITY SAMPLES/D
FROM LOCATION #7. MOVING TO POND TO CATCH SOME FISH

0835 - EVERYONE AT THE POND. SETTING UP EQUIPMENT.

0905 - EVERYTHING IS READY. THE PLAN IS TO DEPLOY A SE
ACROSS THE POND AND DRAG 1/2 OF THE POND THEN D
THE OTHER HALF. GARY AND GREG ON THE BOAT DEPLOYI
SEINE, CHRIS AND KATHY ON SHORE HOLDING THE ENDS OF THE

1030 - AFTER SEINING THE POND 5 TIMES, WE DECIDE TO TAKE A
BREAK AND SEE WHAT WE HAVE AND WHAT WE STILL NEED
FROM THE POND.
- ONE OF THE LARGEMOUTH BASS CAUGHT HAD A U.S. FISH
WILDLIFE TAG WITH A TELEPHONE #. CHRIS LONG CALLS T
NUMBER AND GIVES THEM THE INFO. ON THE FISH AND T
THEM THAT WE ARE RELEASING IT. SHE SAID SOMEONE MA
TO GET MORE INFO. ON THE FISH.

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1100 - THE FOLLOWING WAS RECORDED FOR THE FISH:

LARGEMOUTH BASS (8 CAUGHT, 5 KEPT, SEE BELOW)

① LENGTH = 410 mm
② LENGTH = 390 mm
③ LENGTH = 403 mm
④ LENGTH = 356 mm
⑤ LENGTH = 283 mm
⑥ LENGTH = 295 mm } THESE WERE KEPT
⑦ LENGTH = 285 mm
⑧ LENGTH = 294 mm

BLUEGILL (15 CAUGHT, 10 LARGEST KEPT*, SEE BELOW FOR

① LENGTH = 203 mm
② LENGTH = 201 mm
③ LENGTH = 200 mm
④ LENGTH = 200 mm
⑤ LENGTH = 192 mm
⑥ LENGTH = 198 mm
⑦ LENGTH = 191 mm
⑧ LENGTH = 185 mm
⑨ LENGTH = 179 mm
⑩ LENGTH = 175 mm

* 10 WERE KEPT DUE TO THE 5 LARGEST POSSIBLY NOT THE AMOUNT OF TISSUE PER FISH REQUIRED (50 g.), AND THE MAXIMUM NUMBER ALLOWED TO COLLECT PER OUR

CATFISH (2 CAUGHT, 2 KEPT, SEE BELOW)

① LENGTH = 410 mm
② LENGTH = 392 mm

WHITE BASS (2 CAUGHT, 2 RELEASED DUE TO NOT NEEDING TH

1125 - DECIDE TO TRY SEINING THE REMAINING SHALLOW PORTION POND TO TRY TO GET 3 MORE CATFISH FOR SAMPLES. IF DOESN'T WORK, WE WILL DEPLOY A NET AND LET IT SIT NIGHT AND CHECK TOMORROW MORNING

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PROJECT WOODBRIDGE SE/RI

Continued From Page 64

1155- MORE SEINING DID NOT CATCH ANY MORE CATFISH. GARY AND GREG DECIDE TO DEPLOY GILL NETS THEN RETRIEVE THEM TOM MORNING.

1200 - GARY AND GREG OUT ON BOAT SETTING 3 GILL NETS

1215- GARY AND GREG COMPLETE DEPLOYING ALL 3 GILL NETS.
- DECIDE TO TAKE LUNCH THEN MOVE ON TO AREE 22 D DITCH FISHING LOCATION.

1220 - KATHY IANIGA AND CHRIS LONG OFFSITE TO GET CAMERA.
- GARY AND GREG STAY AT POND TO EAT LUNCH.

1240 - KATHY IANIGA AND CHRIS LONG BACK ONSITE TO EAT LUNCH

1250 - GARY AND GREG SETTING UP EQUIPMENT FOR AREE 22 DR DITCH FISHING LOCATION.

1300 - CHRIS LONG AND KATHY IANIGA GO TO BUILDING 211 TA GO TO MEET GARY AND GREG AT PUMPHOUSE #1 TO COL FISH IN DRAINAGE DITCH (AREE 22).

1315 - DRAG BOAT TO CREEK FROM PUMPHOUSE #1. GREG AND WILL SHOCK FISH IN FRONT OF BOAT AND CHRIS LONG W PUSH BOAT UPSTREAM. KATHY IANIGA ONSHORE COLLECTING FISH

1500 - FINISHED STRETCH OF DITCH FROM CLAM BOX LOCATION #5 CLAM BOX LOCATION #6 (BEAVER POND). DID NOT GET VERY MA LARGE FISH. WE WILL SHOCK UPSTREAM OF THE BEAVER PON TRY TO COLLECT REMAINING FISH FOR THESE SAMPLES AT TH AREE.
- GARY AND CHRIS GO TO GET VEHICLES. KATHY AND GREG UP EQUIPMENT IN BEAVER POND.

1515 - GARY AND CHRIS BACK AT BEAVER POND WITH VEHICLES. BEGAN UPSTREAM OF BEAVER DAM. GARY ROWING BOAT UPSTREAM, GREG A CHRIS SHOCKING

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1600 - SHOCKING OF AREA UPSTREAM OF BEAVER DAM COMPLETE EVERYONE PROCESSING THE SAMPLES FOR THIS AREA. THE FOL WAS RECORDED FOR THE FISH:

LARGEMOUTH BASS (8 CAUGHT, 6 KEPT, SEE BELOW)

① LENGTH = 229 mm
② LENGTH = 242 mm
③ LENGTH = 266 mm } THESE WERE KEPT
④ LENGTH = 253 mm
⑤ LENGTH = 239 mm
⑥ LENGTH = 223 mm
⑦ LENGTH = 165 mm
⑧ LENGTH = 155 mm

CARP (COMMON) (3 CAUGHT, 3 KEPT, SEE BELOW)

① LENGTH = 310 mm
② LENGTH = 363 mm
③ LENGTH = 289 mm

BLUEGILL (MANY CAUGHT, 10 LARGEST KEPT SEE BELOW)

① LENGTH = 166 mm
② LENGTH = 140 mm
③ LENGTH = 145 mm
④ LENGTH = 159 mm
⑤ LENGTH = 138 mm
⑥ LENGTH = 129 mm
⑦ LENGTH = 127 mm
⑧ LENGTH = 127 mm
⑨ LENGTH = 126 mm
⑩ LENGTH = 125 mm

BLACK CRAPPY (5 CAUGHT, 5 KEPT, SEE BELOW)

① LENGTH = 170 mm
② LENGTH = 152 mm
③ LENGTH = 189 mm
④ LENGTH = 182 mm
⑤ LENGTH = 190 mm

Continued on Page

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EEL (8 CAUGHT, 7 KEPT, SEE BELOW)

① LENGTH = 285 mm
② LENGTH = 286 mm
③ LENGTH = 273 mm
④ LENGTH = 271 mm
⑤ LENGTH = 253 mm
⑥ LENGTH = 225 mm
⑦ LENGTH = 210 mm
⑧ LENGTH = 170 mm

} THESE WERE KEPT.

1655 - FINISHED PROCESSING SAMPLES. CLEANING/PACKING UP.

1705 - FINISHED CLEANING/PACKING UP. GARY AND GREG GO TO G
SEENE FROM POND AREA AND CHRIS AND KATHY GO TO DRO
KATHY OFF AT MAIN GATE.

1715 - KATHY JANIGA OFFSITE FOR DAY.
- CHRIS LONG GOES TO BUILDING 211 TO DROP OFF EQUIPMENT
TALK TO TODD WALTMEYER ABOUT USING THE BAY IN BUIL
211 TO DRY OUT SEENE. TODD SAYS OKAY.

1725 - ALL EQUIPMENT IN STORAGE ROOM. GARY AND GREG DECI
WAIT UNTIL TOMORROW TO LAY OUT SEENE IN BAY OF
211 TO DRY.
- MOVE BOAT TO BEHIND BUILDING 201.

1735 - EVERYONE OFFSITE FOR DAY

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Continued on Page

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PROJECT WOODBRIDGE SI/RI

Notebook No. —

Continued From Page —

WEDNESDAY NOVEMBER 9, 1994

WEATHER: SUNNY, CLEAR, WARM, HIGH IN THE 50's. FC
FOR THE TEMPERATURE TO RISE INTO THE LOW 70's

0730 - CHRIS LONG ONSITE AT MAIN GATE.

0745 - KATHY JANIGA ONSITE AT MAIN GATE.

0750 - GREG AND GARY ONSITE AT MAIN GATE.
- EVERYONE GOES TO PICK UP BOAT AND EQUIPMENT

0805 - EVERYONE MOVING TO POND.
- GREG AND GARY SAY THEY WILL GO OUT IN BOAT AN
UP THE NETS AND GATHER THE FISH IN THE BOAT THEN
THEM BACK TO SHORE FOR PROCESSING. SAMPLES

0810 - ORGANIZING THE EQUIPMENT AT THE POND.

0820 - GREG AND GARY LAUNCH BOAT AND PREPARE TO PULL UP

0825 - GREG AND GARY BEGIN PULLING UP FIRST NET.

0835 - FIRST NET PULLED IN. GREG AND GARY MOVE TO SECOND NE

0845 - SECOND NET PULLED IN. GREG AND GARY MOVE TO THIRD

0850 - THIRD NET PULLED IN. GREG AND GARY ARE REDEPLOYIN
NETS. IT APPEARS THEY ONLY CAUGHT ONE CATFISH AND W
TO GET THREE.

0900 - ALL THREE NETS ARE RESET. GREG AND GARY BACK
TO PROCESS FISH CAUGHT. THEY SAY THEY ONLY GOT
CATFISH BUT ALSO ANOTHER SPECIES (WHITE PERCH) WHICH
KEEP. SEE NEXT PAGE FOR RECORD OF FISH KEPT:

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Continued From Page

CATFISH (1 CAUGHT, 1 KEPT, SEE BELOW)
① LENGTH = 432 mm

WHITE PERCH (6 CAUGHT, 6 KEPT, SEE BELOW)
① LENGTH = 241 mm
② LENGTH = 216 mm
③ LENGTH = 222 mm
④ LENGTH = 223 mm
⑤ LENGTH = 212 mm
⑥ LENGTH = 224 mm

0925 - PACKING UP EQUIPMENT. GETTING READY TO MOVE TO MARUMSCO CREEK.

0950 - Pat (Guard) opens gate to bay. Gary and Greg put boat in water. Load up boat w/ supplies, nets. Put Fis van.

1005 - Gary and Greg and Chris drive boat along bay to creek Kathy takes van to ridge to watch fishing.

1030 - Gary, Greg and Chris enter Marumsco Creek and start fishing with nets - set up net at base of working way up creek - electro fishing

1200 Gary goes under fence. They caught some perch but ~~fo~~ water is deep, that fish are not being shocked. Gary and Kathy go get truck. They will set nets.

1215 Lunch break.

1250 Lunch over. Get equipment out to set nets.

1310 At mouth of creek, drag net (seining) to shore to capture fish.

1330 Quit seining at mouth of creek to load to get nets to set. Try again upstream.

Continued on Pa

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1400 Gary, Greg, and Chris dock boat. Process fish caught.

White Perch (17 caught, 10 kept, see below) *

①	Length =	181 mm
②	"	175
③	"	182
④	"	166
⑤	"	155 * 10 LARGEST KEPT
⑥	"	155
⑦	"	149
⑧	"	157
⑨	"	147
⑩	"	147

Rest of white perch released.

Blue Gill (12 caught, 10 kept, see below) *

①	Length =	157 mm
②	"	163
③	"	153
④	"	146
⑤	"	152 * 10 LARGEST KEPT.
⑥	"	155
⑦	"	164
⑧	"	135
⑨	"	132
⑩	"	124

Black Crappy (1 caught)

① Length = 196 mm

Release rest of fish.

1430 Gary and Greg set 3 nets in creek.

1500 FINISHED SETTING THE NETS. CLEANING UP AREA, PACK EQUIPMENT AND LOAD BOAT.

1520 FINISHED PACKING UP, MOVING TO BEAVER POND

Continued on Page

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1530 - ARRIVE AT BEAVER POND, PREPARING TO COLLECT FISH UPSTREAM OF BEAVER DAM. KATHY JAEGA, GARY AND GR. GO TO SHOCK FISH.

1615 - FINISHED SHOCKING AREA UPSTREAM OF BEAVER DAM. EVERYO. PROCESSING THE SAMPLES FOR THIS AREA. THE FOLLOWING W RECORDED FOR THE FISH:

BLACK CRAPPY (6 CAUGHT, 5 KEPT, SEE BELOW)

① LENGTH = 175 mm
② LENGTH = 193 mm
③ LENGTH = 184 mm
④ LENGTH = 162 mm
⑤ LENGTH = 190 mm

EEL (3 CAUGHT, 2 KEPT, SEE BELOW)

① LENGTH = 295 mm
② LENGTH = 265 mm

NOTE: ALSO QUITE A FEW BULLHEADS WERE CAUGHT BUT NONE WERE LARGE ENOUGH TO KEEP.

1630 - FINISHED PROCESSING FISH. PACKING UP EQUIPMENT/BOAT.

1645 - FINISHED PACKING UP. MOVING TO BUILDING 211.

1655 - EVERYONE AT BUILDING 211. UNLOADING EQUIPMENT/BOAT. MAY CL 11/9 OPEN SCREENS IN BAY FOR BUILDING 211 TO DRY OUT. GREG AND GARY NOT TO.

1705 - ALL EQUIPMENT/BOAT UNLOADED.

1715 - EVERYONE OFFSITE FOR DAY.

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11/9/94

Continued on Page

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Notebook No. 2

PROJECT WOODBRIDGE SI/RI

Continued From Page —

THURSDAY NOVEMBER 10, 1994

WEATHER: COLD, RAINY, HIGH IN THE 40'S. FORCAST FOR THE R[AIN] STOP IN THE MORNING BUT STAY COOL WITH A HIGH IN [THE]

0745 - CHRIS LONG ONSITE AT MASON GATE.

0750 - KATHY JANIGA ONSITE AT MASON GATE
- GARY AND GREG (AQUATIC SYSTEMS, INC.) ONSITE AT MASON GATE

0755 - MOVING TO PICK UP BOAT / EQUIPMENT.

0805 - HAVE ALL EQUIPMENT / BOAT, MOVING TO POND TO PULL NETS.

0815 - SETTING UP EQUIPMENT AND LAUNCHING BOAT AT POND.

0820 GARY AND GREG MOVE OUT TO RETRIEVE NETS.

0825 - FIRST NET ~~RETRIEVED~~ RETRIEVED @ 11/10/94

0830 - SECOND NET RETRIEVED.

0835 - LAST NET RETRIEVED. GARY AND GREG COMING BACK TO SHORE [TO] PROCESS SAMPLES.

0840 - GARY AND GREG BACK AT SHORE. TAKING BOAT OUT OF WAT[ER] AND ORGANIZING EQUIPMENT.

0845 - BEGIN PROCESSING SAMPLES. THE FOLLOWING WAS RECORDED FO[R]

CHANNEL CATFISH (1 CAUGHT, 1 KEPT, SEE BELOW)
① LENGTH = 395 MM

WHITE PERCH (6 CAUGHT, 4 KEPT, SEE BELOW)
① LENGTH = 209 MM
② LENGTH = 211 MM
③ LENGTH = 225 MM
④ LENGTH = 230 MM

Continued on Pag

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PROJECT WOODBRIDGE SI/RI

Continued From Page 72

0855 - ALTHOUGH WE ARE STILL SHORT 1 CATFISH, WE CAN NOT ELECTROFISH DUE TO THE WEATHER; THEREFORE, WE CALL = QUITS FOR FISH SAMPLING AT THE POND.

0900 - MOVING TO MARUMSCO CREEK LOCATION

0905 - GARY AND GREGG SETTING UP EQUIPMENT AND LAUNCHING B UNDER FENCE.

0920 - FIRST NET RETRIEVED

0935 - SECOND NET RETRIEVED

0950 - LAST NET RETRIEVED. GARY AND GREG LOADING BOAT AND PR TO PROCESS SAMPLES.

1000 - BEGIN PROCESSING SAMPLES. THE FOLLOWING WAS RECORDED FO MARUMSCO CREEK:

YELLOW PERCH (7 CAUGHT, 7 KEPT, SEE BELOW)

(1) 206 mm
(2) LENGTH = 175 mm
(3) LENGTH = 230 mm
(4) LENGTH = 210 mm
(5) LENGTH = 190 mm
(6) LENGTH = 260 mm
(7) LENGTH = 245 mm

NOTE: ALTHOUGH THE 2 SMALLEST PERCH WERE LESS 75% OF THE LENGTH OF THE LARGEST, WE KEPT I TOO DUE TO THEM BEING DEAD.

COMMON CARP

(1) LENGTH = 520 mm
(2) LENGTH = 435 mm

1010 - ~~ALL~~ 11/10 ALTHOUGH WE ARE SHORT ON SOME FISH SPECIES, MMM HAVE A LARGE ENOUGH VARIETY TO GET ADEQUATE SAMPLES.

Continued on Pag

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PROJECT WOODBRIDGE SI/RI

Continued From Page 73

1015 - MOVING TO AREA 22 DITCH. WE DISCUSSED THAT DUE THE WEATHER, ELECTROFISHING CAN NOT BE COMPLETED. WE WILL TRY TO SEINE UPSTREAM OF THE BEAVER DAM, TO PICK UP THE SEINE THE GO TO AREA 22 DITCH

1030 - EVERYONE ARRIVED AT AREA 22 DITCH @ BEAVER DA GARY AND GREG WILL TRY TO SEINE THE BEAVER DA

1130 - AFTER SEVERAL ATTEMPTS AT SEINING UPSTREAM OF THE BEA NO CARP OR EEL WERE BEING CAUGHT, ONLY MORE CRAPPY AND THEREFORE, WE CALL IT QUITS. WE ORGANIZE THE EQUIPMENT A TO BUILDING 201/211 TO PICK UP THE OTHER BOAT AND REMA EQUIPMENT.

1140 - BACK AT BUILDING 201/211 ORGANIZING EQUIPMENT AND GREG AN PLAN ON CHANGING CLOTHS PRIOR TO LEAVING SINCE THEY BOTH DOWN UNDERWATER ABOVE THE TOPS OF THEIR WADERS

1220 - FINISHED PACKING UP EQUIPMENT. MOVING TO MAIN G - AT MAIN GATE GARY AND GREG REPACK COOLERS WITH

1230 - EVERYONE OFFSITE FOR DAY

11/10/94

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PROJECT WOODBRIDGE SEINE

Continued From Page

MONDAY - NOVEMBER 21, 1994

WEATHER: COOL AND RAINING, HIGH IN THE 50'S. FORECAST THE RAIN TO STOP BUT GET COLD.

1300 - CHRIS LONG ONSITE AT MAIN GATE
- IT'S POURING DOWN RAIN.

1340 - GARY AND GREG ONSITE AT MAIN GATE.
- RAIN HAS SLOWED TO A DRIZZLE.

1345 - MOVING TO PICK UP BOAT & EQUIPMENT

1355 - MOVING TO AREA IN FENCE WHERE LOCATION #3 IS
IF WE CAN GET BOAT UNDER FENCE LIKE LAST TIME.

1400 - LOOKS AS IF WE CAN GET THE BOAT UNDER THE FEN
EVEN THOUGH THE TIDE IS HIGHER THAN PREVIOUS TIM
- GETTING EQUIPMENT READY.

1415 - GARY AND GREG LAUNCH THE BOAT AND ROW TOWARDS
LOCATION #4. CHRIS LONG STAYS ONSHORE DUE TO B
WEATHER.

1425 - GARY AND GREG ARRIVE AT LOCATION #4. ONE ATT
SNAG WAS CUT AT ABOUT 5' LENGTH. THEY FOUND ANO
END BUT IT WAS ALSO CUT. GARY AND GREG IN TH
LOOKING FOR BASKETS/ROPE.

1435 - GARY FINDS THE BASKETS. GARY AND GREG BRINGING
TO SHORE FOR PROCESSING SAMPLES. GARY THEN GOES TO G
WATER QUALITY SAMPLES/DATA WHILE GREG COLLECTS CLAMS.

1445 - BASKET A - 1 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 1 DEAD COLLECTED FOR SAMPLE
(NO TIE) 20 LIVE COLLECTED FOR SAMPLE

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1450 - GARY AND GREG RETIE BASKETS CLOSED, RETIE ROPE TO AND BASKETS AND TAKE BASKETS BACK OUT INTO BA LOCATION #4.

1455 - MOVING TO LOCATION #3.

1500 - GARY AND GREG ARRIVE AT LOCATION #3 IN BOAT. CHRIS LONG STAYS ON SHORE. GARY RETRIEVING BASKETS.

1505 - GARY COLLECTING SAMPLES FROM BASKET A, GREG COLL SAMPLES FROM BASKET B.

1510 - BASKET A - 1 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 1 DEAD COLLECTED FOR SAMPLE
(NO TIE) 20 LIVE COLLECTED FOR SAMPLE
- BASKETS RETIED CLOSED, THEN PLACED BACK IN WATE
- GARY COLLECTS WATER QUALITY SAMPLE / DATA.

1515 - GARY AND GREG BRINGING BOAT TO AREA WHERE THEY PULL THE BOAT OUT UNDER THE FENCE; AND PULL BOA TRUCK PACKING UP EQUIPMENT AND LOADING BOAT.

1530 - MOVING TO BRIDGE OVER MARUMSCO CREEK

1540 - CHRIS LONG, GARY AND GREG ARRIVE AT BRIDGE OVER MARUMS
- GARY AND GREG LAUNCH BOAT AND GO TO RETRIEVE BASK LOCATION #1

1545 - BASKETS RETRIEVED. GREG COLLECTING CLAM SAMPLES, GA COLLECTING WATER QUALITY SAMPLES

1550 - BASKET A - 9 DEAD COLLECTED FOR SAMPLE
(HAS TIE) 2 LIVE COLLECTED AND COMBINED WITH BAS
BASKET B - 14 DEAD COLLECTED FOR SAMPLE LIVE CL
(NO TIE) 10 LIVE COLLECTED AND COMBINED
WITH BASKET A LIVE

Continued on Pag

Read and Understood By

Signed

11/21/94
Date

Signed

11/

1550 – (CONT.) NO CLAMS REMAINING AT THIS LOCATION. REMOVED BOTH BASKETS. GARY AND GREG DRAGGING BOAT BACK TO TRUCK.

1555 – BOAT LOADED BACK ONTO TRAILER. MOVING TO LOCATION #2. WE WILL WALK DOWN ALONG THE PATH BESIDE THE CREEK TO ACCESS LOCATION #2.

1605 – WE ARRIVE AT LOCATION #2. GARY AND GREG WALK INTO THE CREEK TO RETRIEVE THE BASKETS.

1610 – BASKETS ARE RETRIEVED AND BROUGHT TO SHORE. GREG COLLECTING SAMPLES FROM BASKET A, GARY COLLECTING WATER QUALITY SAMPLES/DATA AND BASKET B SAMPLES.

1615 – BASKET A – 4 DEAD COLLECTED FOR SAMPLE
(HAS TIE) – 10 LIVE COLLECTED FOR SAMPLE (20 REQ
BASKET B – 20 DEAD COLLECTED FOR SAMPLE
(NO TIE) 20 LIVE COLLECTED FOR SAMPLE

1620 – BASKETS RETIED CLOSED AND GARY AND GREG TAKING BACK OUT INTO THE CREEK.
– MOVING BACK TO TRUCK

1630 – BACK AT THE TRUCK ORGANIZING EQUIPMENT. cc 11/21

1640 – MOVING TO DROP OFF BOATS BEHIND BUILDING 201.

1650 – AT BUILDING 201 DROPPING OFF BOATS

1700 – EVERYONE OFFSITE FOR DAY

11/21/94

Continued on Page

Read and Understood By

Signed — 11/21/94 Date — Signed — 11/28 Date

Notebook No. 5

PROJECT WOODBRIDGE SI/RI

Continued From Page —

TUESDAY NOVEMBER 22, 1994

WEATHER: CLEAR, SUNNY, COOL, HIGH IN THE LOW 50's. FORCAST THE SAME WARMING UP TO THE 60's.

0750 - CHRIS LONG, GREG AND GARY ONSITE AT MAIN GATE - SIGNING IN AND MOVING TO PICK UP BOATS AT BUILDING

0800 - GOT THE BOATS AND NOW MOVING TO TOMBSTONE LOCATION TO COLLECT CLAMS AT LOCATION #8

0805 - ARRIVE AT TOMBSTONE LOCATION, ORGANIZING EQUIPMENT AND CALIBRATING METERS.

0820 - GARY RUNS OUT TO LOCATION #8 TO GET WATER QUALITY SAMPLES / DATA AND RETRIEVE THE BASKETS. CHRIS AND GREG WAIT ONSHORE WHERE WE WILL PROCESS SAMPLES.

0830 - GARY HAS BOTH BASKETS AND IS BRINGING THEM TO SHORE FOR PROCESSING. GREG PROCESSING SAMPLES FOR BASKET A. GARY PROCESSING SAMPLES FOR BASKET B.

0835 - BASKET A - 0 DEAD
(HAS ME) 20 LIVE COLLECTED FOR SAMPLE
BASKET B - 1 DEAD COLLECTED FOR SAMPLE
(NO ME) 20 LIVE COLLECTED FOR SAMPLE

0840 - BASKETS REMOVED CLOSED. GARY TAKING THEM BACK OUT INTO THE WATER. THEN MEETS CHRIS AND GREG BACK THE TRUCK TO LOAD BOAT ONTO TRAILER

0845 - BOAT LOADED AND MOVING TO LOCATION #5.

0850 - ARRIVE AT WELL HOUSE #1. ORGANIZING EQUIPMENT TO WALK LOCATION #5.

Continued on Pag

Signed

11/22/94
Date

Read and Understood By

Signed

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PROJECT WOODBRIDGE SE/RE

Continued From Page

0855 - MOVING TO LOCATION #5

0900 - ARRIVE AT LOCATION #5. GARY COLLECTS WATER QUALITY SAMPLES THEN MOVES TO RETRIEVE BASKETS. GARY PROCESSING SAMPLES BOTH BASKETS.

0905 - BASKET A - 1 DEAD COLLECTED FOR SAMPLE
(HASTIE) - 20 LIVE COLLECTED FOR SAMPLE (23 REMAIN.
BASKET B - 2 DEAD COLLECTED FOR SAMPLE
(NO TIE) 20 LIVE COLLECTED FOR SAMPLE

0910 - GARY RETIES BASKETS CLOSED AND PLACE THEM BACK IN THE WA.
- MOVING BACK TO TRUCK.

0915 - BACK AT TRUCK. MOVING TO LOCATION #7 TO COLLECT WATE QUALITY DATA/SAMPLES FOR COMPLETENESS.

0920 - ARRIVE AT LOCATION #7. GARY AND GREG ORGANIZE EQUIPME THEN GO TO COLLECT WATER QUALITY DATA/SAMPLES.

0925 - WATER QUALITY DATA/SAMPLES HAVE BEEN COLLECTED FOR LOCATIO MOVING TO LOCATION #6

0930 - ARRIVE AT THE BEAVER POND (LOCATION #6). GARY AND GR COLLECTING WATER QUALITY SAMPLES/DATA AND ORGANIZING EQUIPMENT.

0935 - GARY AND GREG LAUNCH THE BOAT TO RETRIEVE THE BASK

0938 - BASKET RETRIEVED AND GREG COLLECTING SAMPLES.

0940 - BASKET A NO LONGER AT LOCATION
BASKET B - 15 DEAD COLLECTED FOR SAMPLE
(NO TIE) 3 LIVE COLLECTED FOR SAMPLE
- BASKET B REMOVED FROM LOCATION. NO CLAMS REMAIN
MOVING TO TRUCK.

Continued on Pa

Read and Understood By

Signed

11/22/94
Date

Signed

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PROJECT WOODBRIDGE SITE

Notebook No. 2

Continued From Page 79

0950 - BOAT LOADED BACK INTO TRAILER AND MOVING TO BUILDING 201 TO DROP OF BOAT AND SHUCK DEAD CL

1000 - AT BUILDING 201 ORGANIZING EQUIPMENT/BOAT. PREPAR TO SHUCK DEAD CLAMS AND TITRATE WATER SAMPLES. GR TITRATING; CURES AND CAGE SHUCKING.

1030 - FINISHED TITRATING WATER SAMPLES AND SHUCKING DE CLAMS. THE FOLLOWING NUMBERS WERE COUNTED: (TISSUE COLLECTED - OTHERS EMPTY)

LOCATION	BASKET	NUMBER
1	A	7
1	B	7
2	A	4
2	B	20
3	A	0
3	B	0
4	A	0
4	B	1
5	A	0
5	B	2
6 @ 11/22/94	B	15
8	A	0
8	B	0

1030 - CLEANING UP AND PUTTING EQUIPMENT AWAY.

1040 - EVERYTHING CLEANED UP AND ALL EQUIPMENT PUT AWAY. EVERY LEAVES SITE FOR DAY

Chuck Ivy 11/22/94

Continued on Page

Chuck Ivy
Signed

11/22/94
Date

Read and Understood By

Kathy Summer
Signed

11/29
Da

PROJECT WOODBRIDGE SE/RE

Continued From Page —

MONDAY DECEMBER 5, 1994

WEATHER: CLOUDY BUT CLEARING AND WARM. HIGH IN THE 60'S

1250 - CHRIS LONG ONSITE AT MAIN GATE

1315 - GARY AND GREG (AQUATIC SYSTEMS) ONSITE AT MAIN GATE
- SIGN IN AND MOVE TO AREA IN FENCE NEAR LOCATION
TO SEE IF WE CAN GET BOAT UNDER FENCE LIKE LAST TIM

1322 - MOVE TO GET BOAT AND COME BACK HERE BECAUSE
CAN GET BOAT UNDER FENCE.

1335 - HAVE BOAT AND MOVING TO AREA IN FENCE NEAR LOCA

1340 - AT AREA IN FENCE NEAR LOCATION #3 TO ACCESS CRE
FROM UNDER FENCE.
- GARY AND GREG ORGANIZING EQUIPMENT AND PREPARING
LAUNCH BOAT.

1350 - ALL EQUIPMENT PACKED ON BOAT AND GARY AND GREG
BOAT. CHRIS LONG TO STAY ON SHORE.
- MOVING TO LOCATION # 4.

1355 - ARRIVE AT LOCATION #4. LINE ATTACHED TO SNAG CUT
- GARY AND GREG IN THE BAY LOOKING FOR ROPE/BASKETS.

1400 - ROPE AND BASKETS FOUND. COLLECTING WATER SAMPLES AND BRE
BASKETS TO SHORE FOR PROCESSING. GARY PROCESSING WATER
SAMPLES/DATA, GREG REMOVING REMAINING ROPE FROM SNAG.

1405 - THE WATER QUALITY SAMPLES/DATA HAS BEEN COLLECTED, AND ALL
COLLECTED. GARY AND GREG TAKING BASKETS TO BOAT FOR PRO
CLAM SAMPLES. BOAT WAS LEFT AT MOUTH OF MARLINSLEE CREEK
TO LOW TIDE.

Continued on Pag

Read and Understood By

Signed — Date — Signed — 12/9

1410 - BACK AT BOAT. BEGIN PROCESSING CLAM SAMPLES.

BASKET A (HAS TEE) - 0 DEAD COLLECTED FOR SAMPLE, 20 LIVE COLLECTED FOR SAMPLE } 131 RE

BASKET B (NO TEE) - 1 DEAD COLLECTED FOR SAMPLE, 20 LIVE COLLECTED FOR SAMPLE } 126 RE

*NOTE: REMAINING CLAMS TO BE DRUMMED

1420 - FINISHED PROCESSING CLAM SAMPLES. GARY AND GREG ROWING IN MARUMSCO CREEK TOWARDS LOCATION #3.

1425 - GARY AND GREG ARRIVE AT LOCATION #3. GARY (AND GREG) COLLECTED QUALITY SAMPLES/DATA, THEN MOVE TO RETRIEVE BASKETS

1430 - BASKETS RETRIEVED. GARY AND GREG BRINGING THE BASKET SHORE FOR PROCESSING.

1435 - BACK AT TRUCK PROCESSING CLAM SAMPLES

BASKET A (HAS TEE) - 0 DEAD COLLECTED FOR SAMPLE, 20 LIVE COLLECTED FOR SAMPLE } 153 REMAI

BASKET B (NO TEE) - 1 DEAD COLLECTED FOR SAMPLE, 20 LIVE COLLECTED FOR SAMPLE } 154 REMAI

*NOTE: REMAINING CLAMS TO BE DRUMMED

1445 - FINISHED COLLECTING SAMPLES. CLEANING UP EQUIPMENT AND BOAT ONTO TRAILER.

1455 - FINISHED LOADING EQUIPMENT AND BOAT. MOVING TO TRAILER SITE TO DROP OFF REMAINING CLAMS INTO A DRUM. DROP OFF THE REMOVED BASKETS.

1505 - FINISHED DROPPING OFF CLAMS (WASTE CLAMS) AND RE BASKETS. MOVING TO BEAVER POND (LOCATION #6) TO COLL WATER QUALITY SAMPLES/DATA.

1515 - AT BEAVER POND (LOCATION #6) COLLECTING WATER QUALI

1520 - FINISHED COLLECTING THE WATER QUALITY DATA/SAMPLES AT LOCATION #6.

Continued on

Read and Understood By

Signed

12/5/94

Date

Signed

OJECT WOODBRIDGE SI/RI

Continued From Page

520 (cont).
- MOVING TO LOCATION #1 TO COLLECT WATER QUALITY DATA/SAMPLES

525 - ARRIVE AT LOCATION #1 AND COLLECTING WATER QUALITY DATA/SAMPLES

530 - FINISHED COLLECTING THE WATER QUALITY SAMPLES/DATA AT LOCATION
- MOVING OUTSIDE THE FACILITY TO COLLECT SAMPLES FROM LOCATI
#1 AND #2.

535 - ARRIVE AT BRIDGE OVER MARUMSCO CREEK. GARY AND GREG
ORGANIZING EQUIPMENT. WE WILL WALK DOWN TO LOCATION #
FIRST.

540 - MOVING TO LOCATION #2

550 - AT LOCATION #2. GARY AND GREG COLLECTING WATER QU
SAMPLES/DATA, THEN GO TO RETRIEVE BASKETS.

555 - BASKETS BROUGHT TO SHORE, WE DECIDE TO CARRY THEM
THE TRUCK TO PROCESS SAMPLES.

610 - BACK AT TRUCK. GREG GOES TO COLLECT WATER QUALITY S
FOR LOCATION #1. GARY ORGANIZING EQUIPMENT, THEN BEGINS
TITRATE WATER SAMPLES.

615 - CHRIS PROCESSING CLAM SAMPLES FROM BASKET A, GREG PR
CLAM SAMPLES FROM BASKET B, LOCATION #2.

620 - LOCATION #2 CLAM SAMPLES.

BASKET A (HAS TIE)	- 3 DEAD COLLECTED FOR SAMPLE	} 0 REMAIN.
	- 17 LIVE COLLECTED FOR SAMPLE	
BASKET B (NO TIE)	- 9 DEAD COLLECTED FOR SAMPLE	} 131 REMA
	20 LIVE COLLECTED FOR SAMPLE	

* NOTE: REMAINING CLAMS TO BE DRUMMED AS WASTE.

625 - GREG HELPING GARY TITRATE WATER SAMPLES.

645 - FINISHED TITRATING WATER SAMPLES AND PACKING UP EQUIPMENT
- EVERYONE OFFSITE FOR DAY.

Continued on Page

Read and Understood By

Chris Ly
Signed

12/5/94
Date

Kathy Jurgens
Signed

12/8

NOTEBOOK NO. —

PROJECT WOODBRIDGE SE/RI

Continued From Page —

TUESDAY : DECEMBER 6, 1994

WEATHER: FOGGY BUT FOG SHOULD CLEAR. HIGH IN THE 50 FORECAST FOR TEMP. TO REACH 60'S

0755 - EVERYONE (CHRIS LONG, GARY, AND GREG) ON-SITE AT MAD
- SIGN IN AND MOVE TO PICK UP BOATS AT BUILDING 201.

0800 - BOATS / TRAILER HOOKED INTO TRUCK, MOVING TO TOMBSTONE LOCATION TO SAMPLE AT LOCATION #8.

0805 - AT THE TOMBSTONE LOCATION. GARY AND GREG PREPARE EQUIPMENT AND CALIBRATING METERS.

0825 - ALL EQUIPMENT READY. GARY AND GREG LAUNCH BOAT. TO GO OUT IN BOAT TO GET WATER QUALITY SAMPLES, AND TO RETRIEVE BASKETS, THEN BRING BASKETS TO SHORE PROCESSING.

0835 - WATER QUALITY SAMPLES/DATA COLLECTED AND BASKETS RET
GARY BRINGING BASKETS TO SHORE FOR PROCESSING. CHRIS SAMPLES FROM BASKET A, GREG PROCESSING SAMPLES FROM BASKET B.

0845 - BASKET A (HAS TIE) — 0 DEAD COLLECTED FOR SAMPLE; 20 LIVE COLLECTED FOR SAMPLE } 70 REMAINING
BASKET B (NO TIE) — 1 DEAD COLLECTED FOR SAMPLE; 20 LIVE COLLECTED FOR SAMPLE } 36 REMAINING

* NOTE: REMAINING CLAMS TO BE DRUMMED AS WA

- CLEANING UP AREA AND PACKING EQUIPMENT ONTO TRUCK.

0850 - FINISHED CLEANING UP AREA AND PACKING EQUIPMENT
- MOVING TO WAREHOUSE #1 TO WALK INTO LOCATION #5.

0855 - ARRIVE AT WELL HOUSE #1 AND ORGANIZING EQUIPMENT CARRY IN, THEN WE GO TO LOCATION #5.

0900 - ARRIVE AT LOCATION #5. GARY AND GREG COLLECTING WATER QUALITY SAMPLES/DATA.

Continued on Pa

Read and Understood By

Chris Long — Signed

12/6/94 — Date

Kathy Jones — Signed

12/

0905 - GARY GOES TO RETRIEVE BASKETS WHILE GREG FINISHES THE WA
QUALITY SAMPLING. ONCE THEY HAVE EVERYTHING, WE LEAVE F
THE TRUCK TO PROCESS SAMPLES THERE.

0910 - ARRIVE AT TRUCK AND BEGIN PROCESSING SAMPLES. CHRIS PROC
SAMPLES FROM BASKET A, GARY PROCESSING SAMPLES FROM BASKET B

0915 - BASKET A (HAS TIE) - 2 DEAD COLLECTED FOR SAMPLE, 21 LIVE COLLECTED FOR SAMPLE } 0 REMAINING
BASKET B (NO TIE) - 6 DEAD COLLECTED FOR SAMPLE, 20 LIVE COLLECTED FOR SAMPLE } 93 REMAINING
* NOTE: REMAINING CLAMS TO BE DRUMMED AS

0920 - GARY AND GREG PACKING UP EQUIPMENT AND TRUCK. THEY
DROP OFF BASKETS AT OLD JOB TRAILER SITE THEN MEET
CHRIS AT BUILDING 211 TO PROCESS DEAD CLAMS

0925 - EVERYONE AT BUILDING 211. GARY TITRATING WATER S
GREG SHUCKING AND PROCESSING DEAD CLAMS

0940 - FINISHED SHUCKING AND PROCESSING DEAD CLAMS. THE FI
NUMBERS WERE COUNTED: (TISSUE COLLECTED - OTHERS EMPTY

LOCATION	BASKET	NUMBER
2	A	3
2	B	8
3	A	0
3	B	1
4	A	0
4	B	1
5	A	2
5	B	7
8	A	0
8	B	1

0940 - ALSO FINISHED TITRATING WATER SAMPLES. GARY AND GREG RE
TRUCK AND BOATS DUE TO SAMPLING BEING COMPLETE.

Continued on Page

0955 - TRUCK AND BOAT PACKED. EVERYONE OFFSITE FOR DAY.

Read and Understood By

Signed — 12/6/94 Date — Signed — 12/6 D

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APPENDIX B

PHOTO LOG

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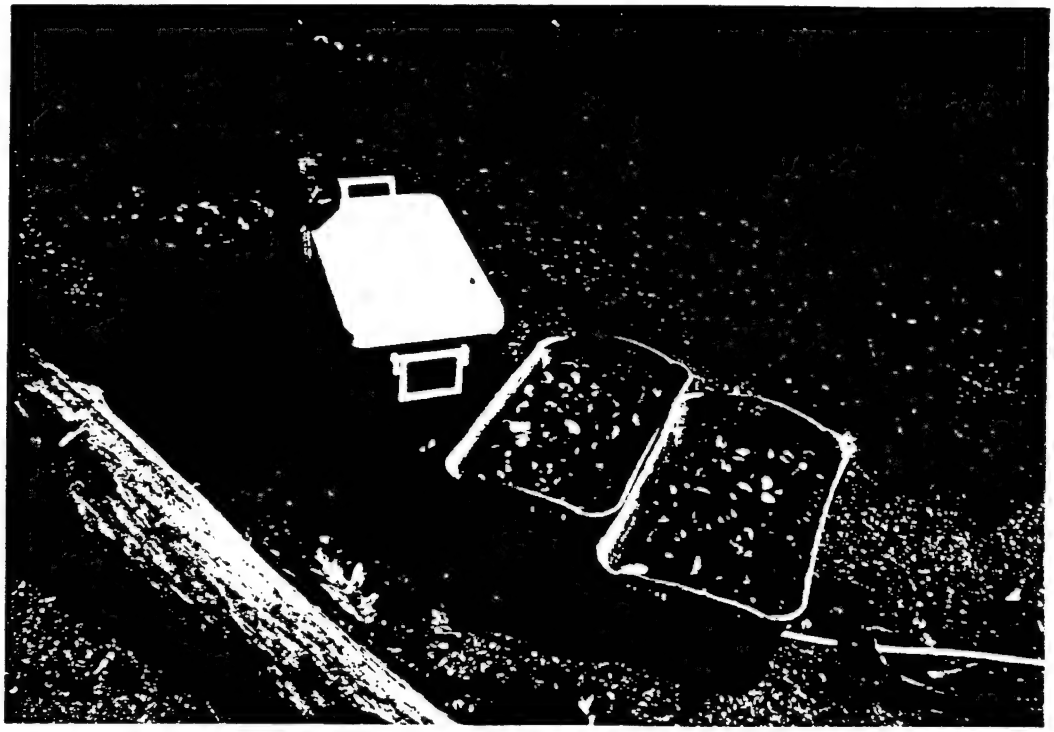

October 9, 1994 Clams before distribution.

October 9, 1994 16 clam baskets at staging area.

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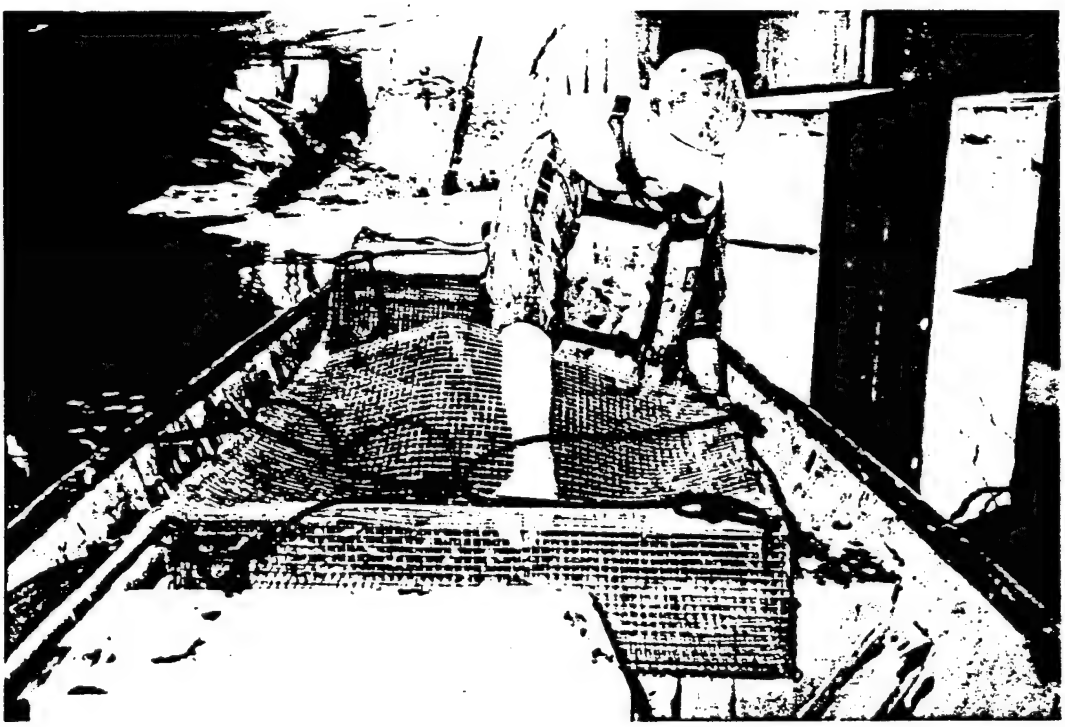
November 7, 1994 Water quality samples collected at Location 1.



November 7, 1994 Clam sample collected at Location 1.

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November 7, 1994 Clam sample collected at Location 2.

October 9, 1994 Location 3 - Marumsco Creek near Landfill 2.

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October 9, 1994 Placing 2 clam baskets at Location 4.

October 9, 1994 Downstream of Location 5.

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November 7, 1994 Retrieving clam baskets for sampling at Location 5.

October 9, 1994 Placing 2 clam baskets at Location 6.

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October 9, 1994 Location 7 - Drainage Ditch upstream of the Main Compound.

October 24, 1994 Retrieving clam baskets for sampling at Location 8 (Belmont Bay approximately 150 feet from WRF).

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November 8, 1994 Fish collection at the pond using the seine net.

November 8, 1994 Checking the seine net for fish.

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November 8, 1994 Measuring the fish collected from the pond.

November 9, 1994 Retrieving the gill nets from the pond.

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November 8, 1994 Electrofishing in the drainage ditch from Location 5 to Location 6.

November 8, 1994 Fish caught with electrofishing.

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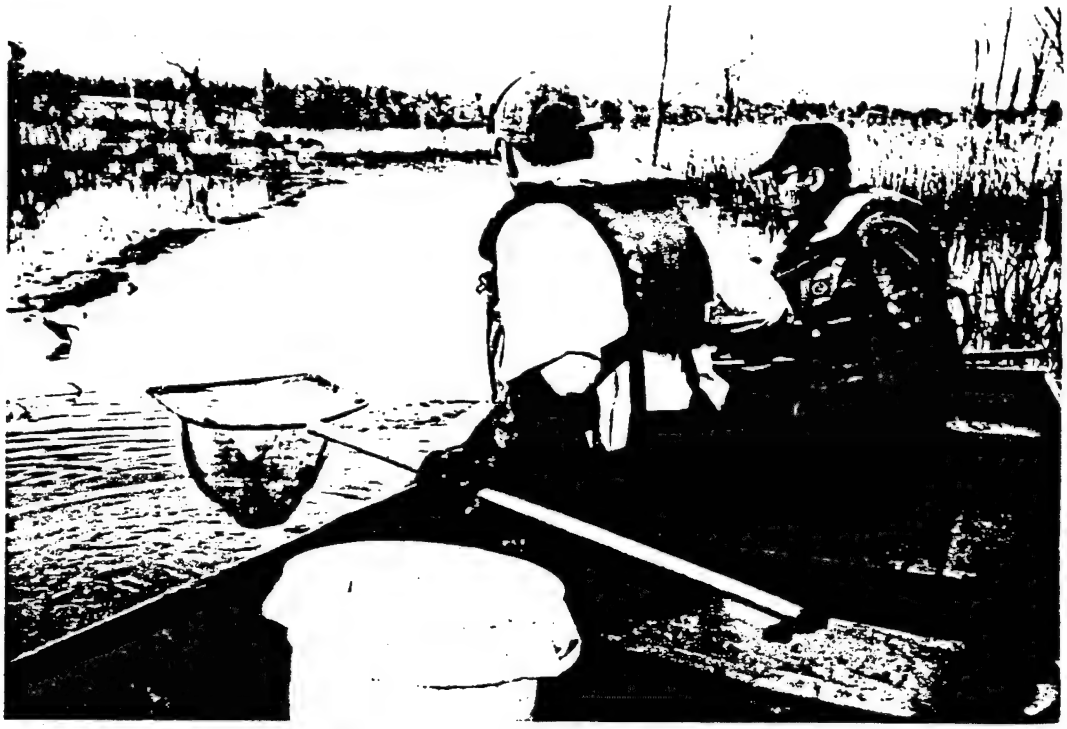

November 8, 1994 Electrofishing in drainage ditch upstream of beaver dam.

November 8, 1994 8 eels caught in drainage ditch.

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November 9, 1994 Electrofishing in Marumsco Creek (near Location 3).

November 9, 1994 Gill net set overnight across Marumsco Creek.

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APPENDIX C

FISHING PERMIT

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COMMONWEALTH of VIRGINIA

Department of Game and Inland Fisheries

SCIENTIFIC COLLECTION/SALVAGE PERMIT

October 31, 1994

Permit No. SCP94116

To whom it may concern:

Permission is granted to Jeffrey Briggs, Principal Permittee, and Gary J. Kenderes, Gregory M. Styborski, Michael F. Davison, Robert L. Shema, Christopher Long, Kevin McCreanor, Kathy Janiga, and Keith Schenkel, Sub-Permittees, of Earth Technology Corp., 1420 King Street, Suite 200, Alexandria, VA 22314, to collect freshwater fishes in the waters of the Woodbridge Research Facility, Prince William County, Virginia, with nets, seines, electro-fishing gear, and by hand for scientific purposes under the following special conditions:

1. No species currently listed by the U.S. Fish and Wildlife Service, or the Virginia Dept. of Game and Inland Fisheries, as threatened or endangered may be intentionally taken under this permit.

2. If incidental take of threatened or endangered species does occur, the permittee is required to notify this Department within five (5) working days of the species, location (county, quad), and number. More specific information (as specified in the reporting requirements) shall be given to the Department within ninety (90) days.

3. Any collections falling within waters defined by this Department as Endangered Species Waters must be coordinated through this Department (Nongame Aquatic staff, 703/552-6992). A sampling plan including stream names must be provided to this Department prior to any sampling.

4. If necessary, the permittee is authorized to take (remove) up to 5 individuals or 20% of the number of specimens (whichever is lower) of any species identifed as "State Special Concern" except *Etheostoma osburni* (candy darter) at any collection location. The permittee is also authorized to take (remove) up to 10 individuals of any species not identified as endangered, threatened, or special concern at any collection location if necessary. Justification must be submitted to this Department for the taking (removal) of individuals in numbers greater than indicated above.

5. The permittee will, in advance, advise the State District Fisheries Biologist and the State Game Warden in the county of the date and location collection will be made. Contact must be made with the State District Fisheries biologist at least one week prior to sampling.

6. The permittee is required to submit to this Department a report of all specimens collected by July 31, 1995. This requirement also includes those specimens that were released after identification was made. Report format is attached. FAILURE TO RETURN THIS REPORT WILL RESULT IN NON-ISSUANCE OF FUTURE PERMITS. A negative report should be submitted if collections were not attempted or were unsuccessful.

7. This permit is issued with the understanding that no collections will be made on federal, state, or private property without the prior approval and necessary permits from the landowners involved.

8. A valid Virginia fishing license is required for each person collecting samples by hook-and-line.

9. Sampling gear, boats, or trailers which have been used in states harboring zebra mussels must be cleaned and prepared following the guidelines specified in the attached summary prior to use in waters in the Commonwealth.

This permit expires June 30, 1995.

Gary F. Martel
Chief, Fisheries Division

APPENDIX D

CHAIN-OF-CUSTODY FORMS

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AQUATIC
SYSTEMS
CORPORATION

P.O. BOX 15390
PITTSBURGH, PA 15237-0590
FAX 412-766-7060
412-367-1000

17 May 1995

Earth Tech
1420 King Street
Suite 600
Alexandria, VA 22314

Attn: Mr. Kevin McCreanor

Subj: Shipment of Biota Samples to
ESE Laboratory, Gainesville, FL
Monday, May 15, 1995

Ref: Telephone Conversation
May 15, 1995

Dear Mr. McCreanor:

This correspondence is to inform you that the biota samples collected at Woodbridge Research Facility in the fall of 1994 have been shipped to ESE Laboratory in Gainesville, Florida per your request. Six (6) coolers of biota samples (fish and mussels) were shipped overnight via Federal Express on May 15, 1995.

Enclosed please find a Copy of the Federal Express Airbill along with copies of the Chain-of-Custody forms which accompanied these biota samples.

If I can be of further assistance to you please do not hesitate to contact me.

Sincerely,

Gregory M. Styborski

GMS/gms

Enclosures

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FedEx. Federal Express

USE THIS AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE

AIRBILL PACKAGE TRACKING NUMBER **3771763796**

3771763796 (1 OF 6)

4319N

SENDER'S COPY

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER	Date
1367-2191-7	5-15-95

From (Your Name) Please Print: Gregory M. Styborski
Your Phone Number (Very Important): 412-367-1000
Company: AQUATIC SYSTEMS CORPORATION
Department/Floor No.:
Street Address: 80 UNION AVE
City: PITTSBURGH **State:** PA **ZIP Required:** 15202

2 To (Recipient's Name) Please Print: Mr. Dave Greer
Recipient's Phone Number (Very Important): (904) 333-1600
Company: EGE Laboratory
Department/Floor No.:
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 14220 Newberry Road
City: Gainesville **State:** FL **ZIP Required:** 32607

3 Your Internal Billing Reference Information (optional) (First 24 characters will appear on invoice.)

H If HOLD AT FEDEX LOCATION, Print FEDEX Address Here
Street Address:
City: **State:** **ZIP Required:**

4 PAYMENT
1 ☐ Bill Sender 2 ☐ Bill Recipient's FedEx Acct. No. 3 ☒ Bill 3rd Party FedEx Acct. No. 4 ☐ Bill Credit Card
5 ☐ Cash/Check Acct./Credit Card No.: 1172-8334-1 Exp. Date:

5 SERVICES (Check only one box)

Priority Overnight (Next business morning*)	Standard Overnight (Next business afternoon; Saturday delivery**)
1 ☒ OTHER PACKAGING	51 ☐ OTHER PACKAGING
16 ☐ FEDEX LETTER*	56 ☐ FEDEX LETTER*
12 ☐ FEDEX PAK*	52 ☐ FEDEX PAK*
3 ☐ FEDEX BOX	53 ☐ FEDEX BOX
4 ☐ FEDEX TUBE	54 ☐ FEDEX TUBE
Economy Two-Day (Delivery by second business day*)	**Government Overnight** (Restricted for authorized users only)
10 ☐ ECONOMY* (Economy Letter Rate not available. Minimum charge One pound Economy rate)	46 ☐ GOVT LETTER
	41 ☐ GOVT PACKAGE
Freight Service (for packages over 150 lbs.)	
70 ☐ OVERNIGHT FREIGHT** (Confirmed reservation required)	80 ☐ TWO-DAY FREIGHT**

*Delivery commitment may be later in some areas. **Call for delivery schedule. *Declared Value Limit $500

6 DELIVERY AND SPECIAL HANDLING (Check services required)

	PACKAGES	WEIGHT (In Pounds)	YOUR DECLARED VALUE (Also Optional)
Weekday Service			
1 ☐ HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H)			
2 ☒ DELIVER WEEKDAY	1	14	
Saturday Service			
31 ☐ HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H)			
3 ☐ DELIVER SATURDAY (Extra charge) (Not available to all locations)	1	14	
9 ☐ SATURDAY PICK-UP (Extra charge)			
	Total	Total	Total

Special Handling
4 ☐ DANGEROUS GOODS (Extra charge)
6 ☐ DRY ICE Dangerous Goods Shipper's Declaration not required
Dry Ice, 9, UN 1845, ____ x ____ kg. 954
☐ DESCRIPTION
12 ☐ HOLIDAY DELIVERY (If offered) (Extra charge)

DIM SHIPMENT (Chargeable Weight)
☐ ____ lbs.
L x W x H

Received At:
1 ☐ Regular Stop 3 ☐ Drop Box
2 ☐ On-Call Stop 4 ☐ B.S.C. 5 ☐ Station

7
Release Signature:

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details.

We will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. The maximum Declared Value for FedEx Letter and FedEx Pak packages is $500.

In the event of untimely delivery, Federal Express will at your request and with some limitations refund all transportation charges paid. See Service Guide for further information.

Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Federal Express Use	
Base Charges	
Declared Value Charge	
Other 1	
Other 2	
Total Charges	

REVISION DATE 4/94
PART #145412 WCSL
FORMAT #180
160

FEDERAL EXPRESS **MULTIPLE PACKAGE SHIPMENT LABELS**

SHIPMENT DATE	5/15/95
MASTER AIRBILL NUMBER	3771763796

2 OF 6 — 861970652

DESCRIPTION

3 OF 6 — 861970661

DESCRIPTION

4 OF 6 — 861970677

DESCRIPTION

5 OF 6 — 861970686

DESCRIPTION

6 OF 6 — 861970695

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CHAIN OF CUSTODY RECORD

ICF KAISER - PROJECT NO. 66220005.00

PLANT CODE	PROJECT NAME	NUMBER OF CONTAINERS
	WOODBRIDGE RESEARCH FACILITY	

SAMPLERS (Signature): STYBORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP.	GRAB	WELL	STATION LOCATION	WEEK 2	WEEK 4	WEEK 6	WEEK 8	CONDUCTIVITY	pH	REMARKS OR OBSERVATIONS
1	10/24/94					SEE STATION LOCATIONS MAP	X						
2	10/24/94						X						
3	10/24/94						X						
4	10/24/94						X						
5	10/25/94						X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	5/5/95	1930					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest #	Chain of Custody Tag #

*DISTRIBUTION: Original accompanies shipment; Copy to Coordinator Field Files.

PLEASE CONTACT DIANE WISBECK OF ICF KAISER FOR ANALYTICAL METHODS 410-612-6361

PAGE ____ OF ____

CHAIN OF CUSTODY RECORD

ICF KAISER - PROJECT NO. 66Z2000500

PLANT CODE	PROJECT NAME	NUMBER OF CONTAINERS
	WOODBRIDGE RESEARCH FACILITY	

SAMPLERS (Signature): STYBORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP.	GRAB	WELL	STATION LOCATION	WEEK 2	WEEK 4	WEEK 6	WEEK 8	CONDUCTIVITY	PH	REMARKS OR OBSERVATIONS
6	10/25/94					SEE LOCATIONS MAP	X						
7	10/25/94						X						
8	10/24/94						X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[illegible]	6/15/95	1930					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest #	Chain of Custody Tag #

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PAGE ____ OF ____

CHAIN OF CUSTODY RECORD

IT KAISER - Project No. 662200500

PLANT CODE	PROJECT NAME
	WOODBRIDGE RESEARCH FACILITY

SAMPLERS (Signature): STYBORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP.	GRAB	WELL	STATION LOCATION	NUMBER OF CONTAINERS	WEEK 2	WEEK 4	WEEK 6	WEEK 8	CONDUCTIVITY	pH	REMARKS OR OBSERVATIONS
1	11/7/94					SEE FIELD DATA SHEETS + LOCATION MAP			X					
2	11/7/94								X					
3	11/7/94								X					
4	11/7/94								X					
5	11/7/94								X					
6	11/7/94								X					
7	N/A						0		-					All clams removed from baskets before Week 4
8	11/7/94								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Gregory M Styborski	5-15-95	1930					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest #	Chain of Custody Tag #

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Please Contact Diane Wisbeck of IT Kaiser for Analytical Methods 410-612-6361

PAGE ____ OF ____

CHAIN OF CUSTODY RECORD

ICF KAISER - PROJECT NO. 6622000500

PLANT CODE	PROJECT NAME
	WOODBRIDGE RESIDENTIAL FACILITY

SAMPLERS (Signature): STABORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP.	GRAB	WELL	STATION LOCATION	NUMBER OF CONTAINERS	WEEK 2	WEEK 4	WEEK 6	WEEK 8	CONDUCTIVITY	PH	REMARKS OR OBSERVATIONS
1	11/21/94					SEE FIELD DATA SHEETS & LOCATION MAP			X					~~[illegible]~~ MW
2	11/21/94								X					
3	11/21/94								X					
4	11/21/94								X					
5	11/22/94								X					
6	11/22/94								X					
7	N/A						0		-					NO CLAMS REMAINING IN BASKETS IN WEEK 6
8	11/22/94								X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Reliquished by: (Signature)	Date	Time	Received by: (Signature)
[illegible] STABORSKI	5-15-95	1930					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Reliquished by: (Signature)	Date	Time	Received by: (Signature)
Reliquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest #	Chain of Custody Tag #

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PAGE ____ OF ____

CHAIN OF CUSTODY RECORD

ICF KAISER PROJECT No. 66222000500

PLANT CODE	PROJECT NAME
	WOODBRIDGE RESEARCH FACILITY

SAMPLERS (Signature) STYBORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP.	GRAB	WELL	STATION LOCATION	NUMBER OF CONTAINERS	INITIAL	WEEK 2	WEEK 4	WEEK 6	WEEK 8			CONDUCTIVITY	pH	REMARKS OR OBSERVATIONS
1	N/A										—						NO CLAMS REMAINING IN BASKETS BY WEEK 8
2	12/5/94										X						
3	12/5/94										X						
4	12/5/94										X						
5	12/6/94										X						
6	N/A										—						NO CLAMS REMAINING IN BASKETS BY WEEK 8
7	N/A										—						NO CLAMS REMAINING IN BASKETS BY WEEK 8
8	12/6/94										X						
—	—																
CONTROLS	10/9/94							X									2 BAGS OF 20 CLAMS EACH RETAINED AT START OF STUDY

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
BRODY M STYBORSKI	12-5-94	1430					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest # / Chain of Custody Tag #

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CHAIN OF CUSTODY RECORD

ICF KAISER - PROJECT NO. 6122000500

PLANT CODE	PROJECT NAME
	WOODBRIDGE RESEARCH FACILITY

SAMPLERS (Signature) STYBORSKI, KENDERES, LONG

STA. NO.	DATE	TIME	COMP	GRAB	WELL	STATION LOCATION	TOTAL NUMBER OF ~~CONTAINERS~~ FISH PER STATION	NO. FISH PER SPECIES: LARGEMOUTH BASS	BLUEGILL	CHANNEL CATFISH	WHITE PERCH	YELLOW PERCH	COMMON CARP	BLACK CRAPPIE	AMERICAN EEL	CONDUCTIVITY	pH	REMARKS OR OBSERVATIONS
9 - POND	11-8 THRU 10, 94	ALL				SEE FISH SAMPLING LOCATION MAP	30	5	10	4	11	—	—	—	—			
10 - MARSHY CREEK	↓					↓	30	—	10	—	10	7	2	1	—			
11 - WETLAND							38	6	10	—	—	—	3	10	9			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
GREGORY M STYBORSKI	5-15-95	1930					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Ice Chest Temp °C	Ice Chest #	Chain of Custody Tag #

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